GLOBAL NEWS
The petrodollar in crisis

REVIEWS
Books, Films, Music

SCIENCE
A new model for *pi*

NEXUS

THE ALTERNATIVE NEWS MAGAZINE

April – May 2017
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Music of the Plants

Anxiety: a modern epidemic

The EMF plague

Vaccines, biowarfare and betrayal

The GM food agenda

Phoenician stonehenge in North America?

Europe's war on cash

Contact with non-human intelligence: the quantum hologram theory

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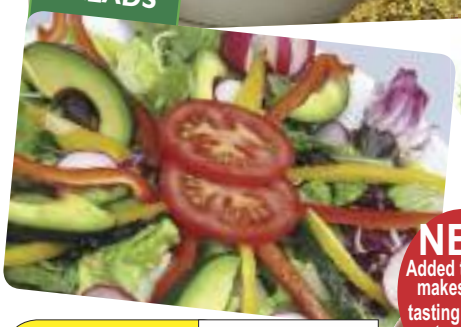

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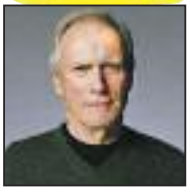

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Volume 24, Number 3
April – May 2017

NEXUS
THE ALTERNATIVE NEWS MAGAZINE

Australasia & SE Asia Edition
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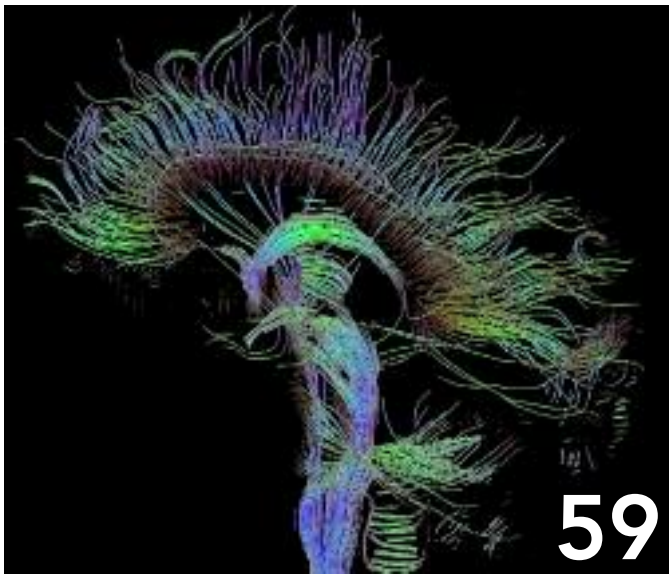

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STATEMENT OF PURPOSE
NEXUS recognises that humanity is undergoing a massive transformation. With this in mind, NEXUS seeks to provide 'hard-to-get' information so as to assist people through these changes. NEXUS is not linked to any religious, philosophical or political ideology or organisation.

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Media, Music and Mysteries…

The mainstream media death spiral continues, and as media staff numbers dwindle so does the quality of news reports—to the point where it seems like there is no "real news" any more. Instead, as WikiLeaks founder and editor-in-chief Julian Assange recently described, what we are getting is "weaponised text"—or, more specifically, *weaponised information*.

If you rely on Facebook or YouTube for keeping up with the world, you're missing out on a *lot* of important daily news—and you won't even realise it. This is why I strongly suggest that you go to www.NexusNewsfeed.com as your daily alternative news starting point. It is completely free to use. If you access the newsfeed via phone or tablet, the apps are free. There are no hidden catches, and we don't require your name or address details. You can read through the hundreds of items every day on your personalised newsfeed, or you can just receive the top 15 items that we email each day.

So, back to this issue of NEXUS Magazine. I'd like to draw your attention to a couple of items which really excite me.

First up is Simone Vitale's article on "Music of the Plants". Technology has brought us to the stage where we can literally hook up plants to a sound system and hear their responses to words, music and other sounds. I see this as a stepping stone to humanity's eventual realisation that *every life form* has some type of "intelligent consciousness" which can communicate. More and more people are finding that they are able to communicate clearly with animals. More and more people are discovering that plants respond to human interaction. Cleve Backster, pioneer of the modern lie detector, used his technology to demonstrate that living cells respond and communicate. I suggest to you all that *everything is alive* and has some form of consciousness; that subatomic particles, atoms, molecules, cells, bacteria, plants and animals all have a type of intelligence which can communicate. Imagine what we could learn as a species if we just started listening to the life forms that surround us on our planet.

Imagine what we could learn as a species if we just started listening to the life forms that surround us on our planet.

And then there are the life forms that are *not* of this planet, some of whom appear to be experimenting on or communicating with humans—much like we humans are discovering that we can communicate with plants and animals, I guess. I refer to a recent study conducted by The Dr Edgar Mitchell Foundation for Research into Extraterrestrial Encounters (FREE); an excerpt from its findings is included in this issue. This study is the first comprehensive multi-language investigation of individuals who have reported to have had contact experiences related to unidentified flying objects (UFOs) and non-human intelligence (NHI). It is clear that we humans are just one intelligence among many. Surely our next evolutionary jump is the global realisation that every life form is sovereign, intelligent and waiting for us to join their conversation.

Back down on planet Earth… This year we're taking a break from our NEXUS Conferences. Next year, 2018, we're planning to hold a Conference in the USA, one in Australia and one in Europe. If you're on our free NEXUS email list (see www.NexusMagazine.com), then you'll be the first to know. Until next time…

– Duncan

Adapt or die

University Study Report

ENAR® Therapy System

In preserving and evolving Life... One core self-evident principle of Life is ~ *"Adapt or Die"*

Adaptation, changing in response to stimuli, took us as fish from the water onto the land and continues to drive all of us. Moment to moment, now, the nervous, endocrine and other systems respond within us to adapt in real-time to keep us in homeo-stasis (human balance).... and so recreate healthy responses and natural healing.... until they don't....

If your whole body has reached this extreme point, where it has failed to adapt effectively, the systems falter, the heart stops, and unless we are resuscitated, its almost certainly the end of your incarnate human experience....

Unless the most common resuscitation device, the electrical heart defibrillator, gets applied. Medicos at this point use this electro-energetic impulse to "reset electrical fields around the heart" and so jump-start our intrinsic operating systems, our nervous systems, to resume life's real-time adaptive processes. Since electro-energy-adaptation is the self-evident means to sustain much of our health and healing: **Obviously our most ideal way to facilitate healing is to interactively prompt your electro-neuro adaptation!** That's where ENAR comes in to help healing.

ENAR: The **E**lectro **N**euro **A**daptive **R**ejuvenator is an Australia therapeutic medical device for both personal and therapist uses. The ENAR device provides a micro electrical stimulation, similar to electro-acupuncture, which **uses a reflex-bio-feedback signal that interactively prompts nerves in the body to respond** and so treat unresolved problems. The ENAR is very easy to apply to the skin, and can be self-used all over the body.

University Research

In Australia, two published university studies, a randomized control trial or RCT at Macquarie, and a post-market surveillance study or PMSS at RMIT, did both indicate ENAR could generate significant, extended results on many chronic painful problems.

The RMIT study comprised 481 patient-user reported cases on the use of the ENAR. Respondents were aged 18 to 88 years (average 56 years).

The primary conditions for which ENAR was used were **painful chronic musculoskeletal complaints,** although a wide range of other types of problems were reported to have been successfully managed with ENAR. **Almost one quarter had used ENAR for problems NOT involving muscles or joints.**

Remarkably, respondents reported an average **reduction in pain of 70%**. They also reported an average functional improvement of 62% using objective rating scales. (RMIT Uni)

www.enar.com.au
www.enar.com.au/research

Case Results Reported

When asked about the uni results, Professor Rod Bonello said *"We'd heard that ENAR could produce a dramatic benefit in some cases, but frankly we were very surprised at how strong the results were in terms of effectiveness and versatility."*

Results were reported to last between hours and years, with the average benefit reported to last a matter of months.

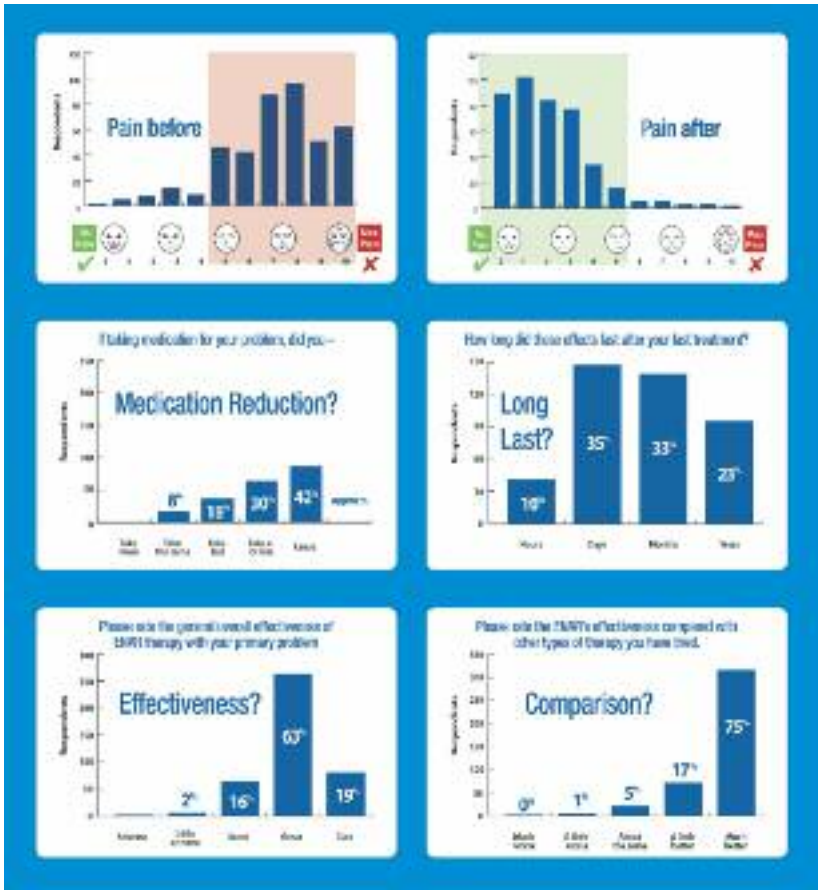
63% rated ENAR therapy effectiveness as giving 'great benefit'.

'Medication reduction' was reported by 91% of respondents who were taking drugs.

Participants were asked to rate the overall effectiveness of ENAR compared to other therapies they had tried. **92% found ENAR therapy superior to their other therapies.**

Almost all respondents (98%) reported positive effects on their primary problem.

ENAR Therapy ph 1300 305 107



LETTERS

Facial Recognition Fiasco

Dear Duncan: I couldn't help but laugh when I read the Global News item in NEXUS Magazine December 2016–January 2017 issue [24/01] headlined "One in Two American Adults Already in Facial Recognition Network". I believe that the problem is a lot more endemic than most people care to believe.

With the advent of the "selfie" combined with high-resolution cameras, it means that facial profiles have literally flooded the Internet. Anyone who has "tagged" themselves online has literally assisted any individual/corporation/government with data-mining capabilities by providing not only a name but also contact details and a location with a digital copy of their face, most often photographed from multiple angles.

What surprises me the most is that for a long time science fiction has promoted the human iris as the ultimate safeguard for high-tech security systems. Yet these same megapixel selfies are also revealing private security keys, which no doubt will compromise these security systems before they begin, should iris recognition security become the norm.

Bearing this in mind, the one-in-two-adults figure proffered by Vocativ.com amounts to 50 per cent of the adult population. According to my estimate, this percentage of adults would be a lot higher, thanks to the use of multiple social media platforms, and the figure for children who love to overshare would be even higher again!

The fact that the new breed of quantum computers is being designed primarily for "image binary classification" (facial recognition) should be a warning sign of the future that is coming!

Sincerely,

Mark R., Dianella, WA, Australia

Nasal Breathing Oxygenation

Hi Duncan: The very informative Newsfeed article on "Rhythms of Breathing" [NEXUS 24/02] which focuses on memory function certainly jogged my memory of a time when I researched and put into practice nose-breathing as a way of improving my health. It occurred to me that NEXUS readers may find some interest in the great benefits to be had from really quite simple breathing exercises.

What I eventually went on to discover was that learning to breathe properly through your nose is one of the most important things you can ever do for your health.

My research, and the technique that I eventually selected, centred around the works of two teachers: K. P. Buteyko, MD (the Buteyko Breathing Method), who showed how nearly all people with chronic diseases are chest-breathers; and Artour Rakhimov, PhD, who taught a similar technique to Russian cosmonauts.

I discovered that the reasons why correct nasal breathing is so important are many, but there are two main reasons.

First, a substance called "nasal nitric oxide" is released into the nasal passages and consequently the lungs, which is necessary to disinfect the lungs by killing micro-organisms that can cause respiratory infections. Nitric oxide (NO) is a molecule that our body produces to help its 50 trillion cells communicate with each other by transmitting signals throughout the entire body.

For the purpose of our subject, it is also a potent vasodilator and its synthesis explains why nitroglycerin has been used for almost a century to treat angina and heart dysfunction. Nitroglycerin converts into nitric oxide, dilates blood vessels and helps prevent the symptoms. We naturally produce nitric oxide in various parts of our body, including our sinuses, from arginine, a semi-essential amino acid that is present mainly in meat, fish and nuts.

The second reason is even more amazing and can actually assist in preventing cancer because our lungs extract oxygen from the air we breathe, primarily on exhalation. As the nostrils are smaller than the mouth, air exhaled through the nose creates a back pressure. It slows the escape of air so that the lungs have more time to extract oxygen from them. The important aspect of all this is that when there is a proper oxygen–carbon dioxide exchange, the blood will maintain a balanced pH.

The reason why this so important is that as blood cells pass through our lungs, there is a very delicate electrical balancing act that takes place between their cell surfaces and the ionic charges of the surrounding plasma. As the cells pass through the lungs, the purple-coloured blood cells have the ionic charge that they received when picking up carbon dioxide. In contact with lung oxygen, this charge is reversed so that the carbon dioxide drops off and the reversed charge attracts and picks up oxygen molecules.

As these cells pick up a full supply of oxygen, their ionic charge reverses and their colour changes from purple to red. These now-oxygenated blood cells are carried along through the body until they're in the vicinity of body cells that have a surplus of carbon dioxide and need some oxygen. At that point,

the ionic charges again reverse as the oxygen drops off and the carbon dioxide is attracted and sticks to the blood cells, which once again change to a purple colour and are carried yet again to the lungs for oxygen replenishment.

So you can see how very important this reversing ionic electrical capability is to this whole body-oxygenation cycle.

However, oxygen (and this is the important bit) cannot stick to blood cells if the pH of the blood is acidic. This is where nasal breathing plays such an important role in doing everything you can to get the pH back up to a normal 7.4 so that the blood can do the crucial job of oxygenating and cleansing your body's tissues. You can breathe pure oxygen until the cows come home, but if the blood pH is acidic then the oxygen will not be able to be picked up by the blood cells; it is chemically and electrically impossible. Any traces of oxygen that the acidic blood cells manage to pick up are stripped off early by the oxygen-starved cells along the way and never reach the deeper parts of the body where oxygen is most needed, creating the ideal conditions for cancer to grow.

Learning to breathe through your nose rather than through your mouth could be just about the most important thing that you ever do for your health and your life!

Here are some related links:
http://tinyurl.com/o2fjre7
http://tinyurl.com/jvbx4nv
http://tinyurl.com/hlcbxpy.

Regards,
Peter, Queensland, Australia

Psychiatric Misdiagnoses

Dear Duncan: Your extract from Professor Peter C. Gøtzsche's 2015 book *Deadly Psychiatry*, published in NEXUS vol. 24, no. 1, needs to be taken very seriously by all those working in the pharmacological and medical professions.

As a practising pharmacist, I've seen at first hand how a patient labelled as psychotic was terribly mismanaged. For obvious legal and other reasons, I cannot identify the patient or the physicians involved. Nevertheless, the story is as follows.

R. H. was a 40-year-old female with a past history of drug abuse and psychosis and was the victim of physical violence that had left her with serious muscular and spinal injuries. As a consequence, she was put on a cocktail of drugs which included Suboxone®, baclofen, benzodiazepines, pregabalin and antidepressants, to mention a few. Needless to say, she was in and out of hospital.

Three weeks ago, after being discharged from hospital, she complained of excruciating back pain, lack of sleep and disorientation, all of which she thought was related to her back injuries. She was admitted to a general hospital, and given her past mental history the clinicians decided that she should be transferred to a psychiatric facility. A few days later she was readmitted to the general hospital, where she died from septicaemia.

The severe back pain that she experienced was most likely kidney disease, made worse by the medications that she took, and her being described as "mental" probably impaired the physicians from making a proper diagnosis.

I sincerely hope that this is an isolated case, but what if it's not?

Maurice Czarniak, WA, Australia

Modern Physics Refuted

Dear Editor: Modern physics has falsified data in an attempt to prove erroneously that classical physics cannot explain all observed physical effects so as to falsely vindicate special relativity, general relativity and quantum dynamics as the only viable theories.

For many years I have successfully refuted many claims made by relativists, Big Bangers and quantum theorists. Please see my blog (http://tinyurl.com/hj2vj8n) to read how these arguments are conceptually and scientifically expressed. All my posts are backed up by verifiable mathematics and/or observations.

NEXUS Magazine will do its readers a favour by exposing these theories as hoaxes.

Regards,
M. R., United Kingdom

Electrosmog and Bee Deaths

Dear Editor: The lead article on colony collapse disorder (CCD), "A bee mogul confronts a crisis", on the front page of the *New York Times* international edition (22 February 2017), was published just days after 104 nano-satellites were launched (by one rocket) in India as part of a plan by private companies to put 11,000 new satellites, drones and balloons into orbit to effect global Wi-Fi coverage.

Interestingly, CCD incidence started to climb in 2003 after the widespread adoption of 3G wireless frequencies, and it escalated wildly after 2009 when the 4G network was introduced. As the intensifying level of electrosmog is the only new pollutant, it is clear that we have the smoking gun—which is very worrying, as no bees equals no crop pollination, which equals no food. Dr David Suzuki warned many years ago that if the bees go, humanity has only four years left. As the next generation of frequencies, 5G, is launched over the next three years, there is no knowing quite how extreme the damage will be. But the fact that there *will* be damage is not in question because thousands of peer-reviewed studies have revealed multiple adverse effects on all life forms.

If the precautionary principle is not implemented immediately, we may have to face the predictions of the Mayan civilisation, for we are almost out of time. Can this be turned around so that "progress" does not mean killing everything on the planet?

Sarah B., Naxos, Greece

Global News from NEXUS Newsfeed

TREE RINGS SHED LIGHT ON 5480 BC SOLAR EVENT

An international team led by researchers at Nagoya University, Japan, along with American and Swiss colleagues, has identified a new type of solar event and dated it to the year 5480 BC. They did this by measuring carbon-14 levels in tree rings, which reflect the effects of cosmic radiation on the atmosphere at the time.

When the activity of the Sun changes, it has direct effects on the Earth. For example, when the Sun is relatively inactive, the amount of a type of carbon called carbon-14 (^{14}C) increases in the Earth's atmosphere. Because carbon in the air is absorbed by trees, carbon-14 levels in tree rings actually reflect solar activity and unusual solar events in the past. The team analysed a specimen from a bristlecone pine tree, a species that can live for thousands of years, in order to look back deep into the history of the Sun.

"We measured the ^{14}C levels in the pine sample at three different laboratories in Japan, the US and Switzerland, to ensure the reliability of our results," said Professor A. J. Timothy Jull of the University of Arizona's Accelerator Mass Spectrometry Laboratory. "We found a change in ^{14}C that was more abrupt than any found previously, except for cosmic ray events in AD 775 and AD 994, and our use of annual data rather than data for each decade allowed us to pinpoint exactly when this occurred."

The team attempted to develop an explanation for the anomalous solar activity data by comparing the features of the ^{14}C change with those of other solar events known to have occurred over the last couple of millennia.

"Although this newly discovered event is more dramatic than others found to date, comparisons of the ^{14}C data among them can help us to work out what happened to the Sun at this time," said Fusa Miyake of Nagoya University's Solar–Terrestrial Environment Laboratory. "We think that a change in the magnetic activity of the Sun along with a series of strong solar bursts, or a very weak Sun, may have caused the unusual tree ring data."
(Source: ScienceDaily.com, 7 February 2017, http://tinyurl.com/zx3lnmw)

The bristlecone pine forest in California from which the pine sample for this study was taken. (Photo: Professor A. J. T. Jull)

'LOST CONTINENT' REMNANT FOUND UNDER MAURITIUS

Scientists have confirmed the existence of part of a "lost continent" under the Indian Ocean island of Mauritius that was left over from the break-up of the supercontinent Gondwana which started about 200 million years ago.

The piece of crust, which was subsequently covered by young lava during volcanic eruptions on the island, seems to be a tiny piece of ancient continent which broke off from the island of Madagascar when Africa, India, Australia and Antarctica split up and the Indian Ocean was formed.

"Earth is made up of two parts—continents, which are old, and oceans, which are 'young'. On the continents you find rocks that are over four billion years old, but you find nothing like that in the oceans, as this is where new rocks are formed," explained geologist Professor Lewis Ashwal of the University of the Witwatersrand in Johannesburg, South Africa.

Zircons are minerals that occur mainly in granites from the continents. They contain a rich record of geological processes and can be dated extremely accurately.

"The fact that we have found zircons [as old as three billion years] proves that there are much older crustal materials under Mauritius that could only have originated from a continent," said Professor Ashwal.

"According to the new results, this break-up did not involve a simple splitting of the ancient supercontinent of Gondwana; but rather, a complex splintering took place with fragments of continental crust of variable sizes left adrift within the evolving Indian Ocean Basin," he added.
(Source: ScienceDaily.com, 31 January 2017, http://tinyurl.com/zr7mx3a)

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TECTONIC PLATES DISCOVERY TO REWRITE TEXTBOOKS

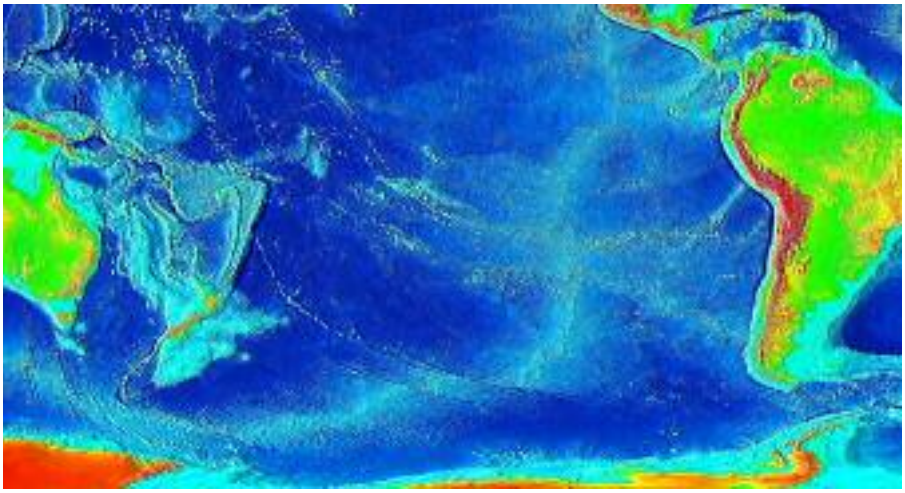
Plate tectonics is the widely accepted theory that the Earth's crust is divided into several sections that float around on the mantle—the mostly solid layer between the core and the crust. But how they move around has been a subject of much debate among scientists since the theory was first accepted in the 1950s. The sections, known as plates, move at the rate of about two to five centimetres per year, which is a similar speed to how fast your fingernails grow.

Scientists have wondered for many decades whether the plates are being passively moved around by the mantle or are the active drivers of the movement themselves, dragging the mantle along with them.

A new study, published in the journal *Science Advances*, has shown that the additional force of heat drawn from the Earth's core plays a part in plate dynamics. The team observed the East Pacific Rise, which is a divergent tectonic plate boundary which lies along the Pacific Ocean floor, and also made models of the mantle flow beneath the surface.

During their observations, the researchers concluded that the movement of the East Pacific Rise could not be completely explained by subduction—when one plate moves under another—and other forces had to be at play. In the paper, they state that buoyancy is created by heat rising up from deep within the Earth's core.

"We see strong support for significant deep mantle contributions of heat-to-plate dynamics in the Pacific hemisphere," said Professor David B. Rowley, an expert in geophysical sciences at the University of Chicago and lead author of the paper, in a statement. "Heat from the base of the mantle contributes significantly to the strength of the flow of heat in the mantle and to the resultant plate tectonics.



The East Pacific Rise: tectonic plates are driven by an additional force of heat drawn from the Earth's core. (Source: US NOAA)

"Based on our models of mantle convection, the mantle may be removing as much as half of Earth's total convective heat budget from the core," Professor Rowley said.

"The implication of our work is that textbooks will need to be rewritten."

(Source: Business Insider UK, 21 January 2017, http://tinyurl.com/j257g33)

HUMANS ARRIVED IN NORTH AMERICA 10,000 YEARS EARLIER THAN THOUGHT

The earliest settlement date of North America, until now estimated at 14,000 years before present (BP) according to the earliest dated archaeological sites, is now estimated at 24,000 BP, at the height of the last ice age or Last Glacial Maximum.

This has been demonstrated beyond a shadow of a doubt by Professor Ariane Burke, of the Université de Montréal's (UdeM's) Department of Anthropology, and her doctoral student Lauriane Bourgeon, with the contribution of Professor Thomas Higham, Deputy Director of Oxford University's Radiocarbon Accelerator Unit.

The researchers made their discovery using artefacts from the Bluefish Caves, located on the banks of the Bluefish River in northern Yukon near the Alaska border. The site had been excavated by archaeologist Jacques Cinq-Mars between 1977 and 1987. Based on radiocarbon dating of animal bones, he had made the bold hypothesis that human settlement in the region dated as far back as 30,000 BP.

To set the record straight, Lauriane Bourgeon examined the approximately 36,000 bone fragments culled from the site and preserved at the Canadian Museum of History in Gatineau.

Comprehensive analysis revealed undeniable traces of human activity in 15 bones. About 20 other fragments also showed probable traces of the same type of activity.

Bourgeon submitted the bones to further radiocarbon dating. The oldest fragment, a horse mandible showing the marks of a stone tool apparently used to remove the tongue, was radiocarbon-dated at 19,650 years, which is equivalent to between 23,000 and 24,000 cal BP (calibrated years before present).

"Our discovery confirms previous analyses and demonstrates that this is the earliest known site of human settlement in Canada," said Burke. "It shows that Eastern Beringia was inhabited during the last ice age."

(Source: ScienceDaily.com, 16 January 2017, http://tinyurl.com/zcmkh3r)

A supercapacitor rose is rigged up in the Laboratory of Organic Electronics at Linköping University, Sweden. (Source: Thor Balkhed)

ELECTRONIC PLANTS ENABLE ENERGY STORAGE

Scientists have figured out how to inject a conducting solution into a rose cutting and have it spontaneously form wires throughout its stem, leaves and petals to create fully functioning supercapacitors for energy storage.

The so-called "e-Plant" was able to be charged hundreds of times without any loss of performance, and the team behind the invention says that one day it could allow us to create fuel cells or autonomous energy systems inside living plants.

"A few years ago, we demonstrated that it is possible to create electronic plants, 'power plants', but we have now shown that the research has practical applications," said one of the team members, Professor Magnus Berggren, head of the Laboratory of Organic Electronics at Linköping University in Sweden. "We have not only shown that energy storage is possible, but also that we can deliver systems with excellent performance."

In 2015, the researchers produced their first cyborg rose by filling its veins with a conductive polymer solution and having it weave the material into its living tissue.

Fast forward to today, and the researchers have managed to tweak the polymer solution so that it spreads autonomously throughout the entire plant including the leaves and petals, not just localised regions of the stem as in the previous experiment.

When they peered inside the rose tissue, the researchers found that the polymer solution had permeated its vascular walls to sit between the cell wall and the plasma membrane.

This allowed them to turn the network of wires into a fully functioning electronic device by placing several supercapacitors—powerful components used in many different kinds of electronics to store large amounts of electrical energy—along the stem.

The next step for the team is to make the technique work in a living rose, not just a cutting, so that the possibility of growing primitive electronic systems inside forest vegetation or fields of vegetables to harvest energy could be realised. *(Source: ScienceAlert.com, 27 February 2017, http://tinyurl.com/hjwxll9)*

VATICAN TAKES OVER KNIGHTS OF MALTA AFTER CONDOM DISPUTE

The Vatican has taken over the Knights of Malta in an extraordinary display of papal power after the leader of the sovereign lay Catholic order publicly defied Pope Francis in a dispute over condoms.

The move is remarkable—and controversial—because it marks the intervention of one sovereign state, the Holy See, in the internal governing affairs of another, the Sovereign Military Order of Malta, an ancient aristocratic order that runs a vast charity operation around the globe.

A Vatican statement said that the Knights' governance would shift temporarily to the Order's second-in-command, pending the appointment of a papal delegate.

The naming of a papal delegate signals a Vatican takeover, harking back to the Vatican's previous takeovers of the Legion of Christ and Jesuit religious orders when they were undergoing periods of scandal or turmoil. But those are religious orders that report directly to the Holy See. The Knights of Malta is a sovereign entity under international law, making the Vatican intervention all the more remarkable.

The Order of Malta has many trappings of a sovereign state, issuing its own stamps, passports and licence plates, and holds diplomatic relations with 106 states, the Holy See included.

As a result, even the Vatican's statement announcing the takeover is problematic. According to the Knights' own laws, the Grand Master is elected by the Order's top leadership and submits his resignation to the Order's top leadership. The Pope is only informed of the decisions.

"It's not for the Holy Father to accept the resignation of the Grand Master; it's for the Sovereign Council to accept it," noted Dr Kurt Martens, a professor of canon law at The Catholic University of America.

Dr Martens said that the Vatican intervention is "dangerous" because it sets a precedent that could eventually be used against the Holy See, which has a similarly unique status as a sovereign entity. *(Source: BostonGlobe.com, 26 January 2017, http://tinyurl.com/gue4924)*

PARIS TO TACKLE ELECTROSMOG BY REDUCING ANTENNA EMISSIONS

Paris will reduce the exposure of its inhabitants to electromagnetic (EM) waves by 30 per cent under a charter with cellphone operators to limit the maximum level of antenna emissions to 5 V/m (volts per metre). Paris thus will become the most protective metropolis in Europe, ahead of Brussels which has set the threshold at 6 V/m.

"These are extremely stringent standards," said Julien Bargeton, the Deputy Mayor of Paris in charge of finance.

Electromagnetic waves, which the World Health Organization considers to be "potentially carcinogenic", are suspected of being harmful to health.

From 1 April this charter, which renews a previous agreement that's already "the most binding in France", will decrease the threshold from 7 V/m to 5 V/m in the 2,240 relay antennas present in Paris as well as in any future installations.

It is a question of achieving a "balance between public health concerns, controlling the levels of exposure while remaining a digital capital of the world", Bargeton said.

According to the charter, the consultation period with Parisians during installation of an antenna will be increased from two to four months, depositions will have to be better detailed, and a "more comprehensive surveillance strategy" will be put in place.

At the same time, a municipal EM radiation watchdog, an initiative adopted on the recommendation of Parisian ecologists, is being created to inform, monitor and amplify the suite of measures already in existence. This new group brings together elected members, EM experts and associations as well as representatives from the French Ministry of the Environment.
(Source: GoodPlanet.info, 2 March 2017, http://tinyurl.com/jk4juzy)

FACIAL RECOGNITION FOR AUSTRALIAN AIRPORTS

As part of a $78 million security upgrade, Australia's Department of Immigration and Border Protection will install 92 facial recognition systems in major air and sea ports, replacing passport checks with biometric identification systems.

The program will see all international passengers processed by biometric recognition of their face, iris or fingerprint, incoming passenger paper cards abolished, and manned stations replaced by electronic stations and an automatic "triage" system.

This next-generation trial is part of the government's goal to automate 90 per cent of international traveller processing by 2020.

Dr John Coyne, head of the Border Security Program at the Australian Strategic Policy Institute, said that the system is designed to filter incoming passengers through a corridor where their biometrics can be checked without passengers even having to stop.
(Source: ABC.net.au, 22 January 2017, http://tinyurl.com/zrecjch; TottNews.com, 22 January 2017, http://tinyurl.com/j5fgszz)

RECORD-HIGH RADIATION LEVELS DETECTED IN FUKUSHIMA REACTOR

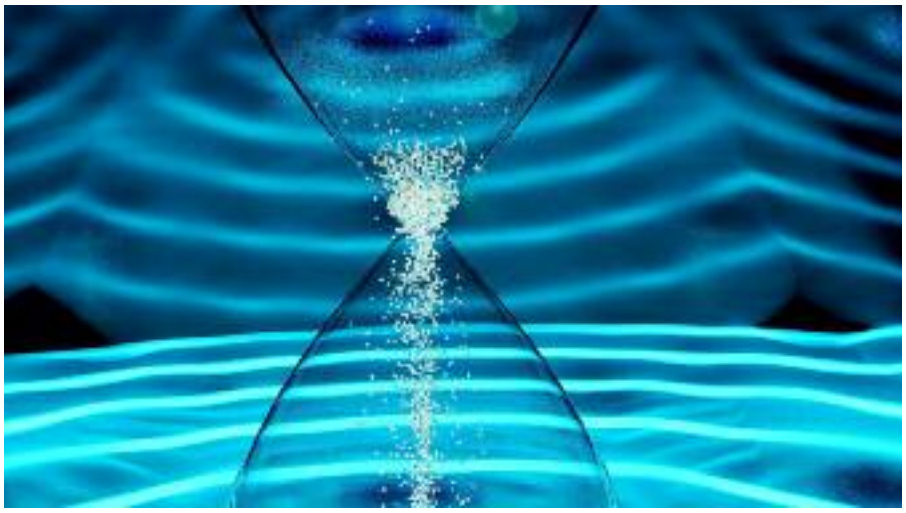
Radiation levels of up to 530 sieverts per hour have been detected inside the inactive Reactor No. 2 at the Fukushima Daiichi nuclear power complex, Japanese media reported, citing the plant operator, the Tokyo Electric Power Company (TEPCO). A dose of about 8.0 sieverts is considered to have fatal consequences.

In addition, a hole of one square metre in size has been discovered beneath the reactor's pressure vessel, TEPCO said. The apparent opening in the metal grating of one of the three reactors that had melted down in 2011 is believed to have been caused by melted nuclear fuel.

The iron scaffolding has a melting point of about 1,500 °C, TEPCO said, explaining that there is a possibility that the fuel debris has fallen onto it and burnt the hole.

Speaking to RT, Yosuke Yamashiki, a Doctor of Engineering from Kyoto University, said that the complete abatement of the radiation will take hundreds of thousands of years.
(Source: RT.com, 2 February 2017, http://tinyurl.com/hqh3493)

"You know, this is unfeasibly bizarre, and yet, for some reason, it all makes sense."



Researchers have created the world's first time crystal, an exotic state of matter that combines the rigidity of an ordinary crystal with a regular rhythm in time. (Source: E. Edwards, Joint Quantum Institute)

SCIENTISTS CREATE A NEW FORM OF MATTER, A 'TIME CRYSTAL'

Scientists have reported in the journal *Nature* on the creation of a phase of matter, dubbed a "time crystal", in which atoms move in a pattern that repeats in time rather than in space.

The atoms in a time crystal never settle down into what's known as *thermal equilibrium*, a state in which they all have the same amount of heat. It's one of the first examples of a broad new class of matter, called *nonequilibrium phases*, that have been predicted but until now have remained out of reach. Like explorers stepping onto an uncharted continent, physicists are eager to explore this new realm.

"This opens the door to a whole new world of nonequilibrium phases," said Dr Andrew Potter, an assistant professor of physics at The University of Texas at Austin. "We've taken these theoretical ideas that we've been poking around for the last couple of years and actually built it in the laboratory. Hopefully, this is just the first example of these, with many more to come."

Some of these nonequilibrium phases of matter may prove useful for storing or transferring information in quantum computers.

Dr Potter is part of the team led by researchers at the University of Maryland who successfully created the first time-crystal from ions, or electrically charged atoms, of the element ytterbium. By applying just the right electrical field, the researchers levitated 10 of these ions above a surface. Next, they whacked the atoms with a laser pulse, causing them to flip head over heels. Then they hit them again and again in a regular rhythm. That set up a pattern of flips that repeated in time.

Crucially, Dr Potter noted, the pattern of atom flips repeated only half as quickly as the laser pulses. This would be like pounding on a bunch of piano keys twice a second and having notes coming out only once a second. This weird quantum behaviour is a signature that Dr Potter and his colleagues predicted, and it helped confirm that the result is indeed a time crystal.

The team comprises researchers from the US National Institute of Standards and Technology, the University of California, Berkeley, and Harvard University, in addition to physicists at the University of Maryland and UT Austin.
(Source: ScienceDaily.com, 8 March 2017, http://tinyurl.com/h4cmlnc)

EUROPE'S WAR ON CASH IS A THREAT TO FREEDOM

by Don Quijones

The central authorities in Europe just launched their most important offensive to date in their multiyear War on Cash. The new move comes directly from the European Union's executive branch, the European Commission, which has announced its intention to "explore the relevance of potential upper limits to cash payments" with a view to implementing cross-regional measures in 2018.

Maximum limits on cash transactions already exist in most European countries, and the general trend is downward. Last year, Spain joined France in placing a €1,000 maximum on cash payments. Greece went one better, dropping its cap for cash transactions from €1,500 to €500. In simple terms, any *legal* purchase of a good or service over €500 will need to be done with plastic or mobile money.

In some countries, the maximum cash limit is significantly higher. For example, in Europe's biggest economy, Germany, recent attempts by the government to set a threshold of €5,000 triggered a fierce public backlash. The German tabloid *Bild* published a scathing open letter titled "Hands Off Our Cash", while a broad spectrum of political parties condemned the proposed measures as an attack on data protection and privacy.

"Cash allows us to remain anonymous during day-to-day transactions. In a constitutional democracy, that is a freedom that has to be defended," tweeted the Green MP Konstantin von Notz.

Even Bundesbank President Dr Jens Weidmann criticised the government's proposals, telling *Bild* (emphasis added): "It would be fatal if citizens *got the impression* that cash is being gradually taken away from them."

Germany's neighbour to the south, Austria, has similar

reservations about the EU's plans to suppress cash. Dr Harald Mahrer, State Secretary in the Ministry of Science, Research and Economics, said that Austrians should have the constitutional right to protect their privacy. "We don't want someone to be able to track digitally what we buy, eat and drink, what books we read and what movies we watch," Mahrer said on Austrian public radio station Ö1. "We will fight everywhere against rules" including caps on cash purchases, he said.

In other words, any attempt by the European Commission to set a mandatory continent-wide limit is likely to be met with fierce resistance—at least from some countries. Others are already so far down the path towards a cashless society that they'll barely notice the difference.

...the days of cash as a commonly used payment method may well be numbered anyway.

The financial consultancy A.T. Kearney predicts that by 2022 there will be more cashless transactions in Europe than those using cash.

According to a report by Fung Global Retail & Technology, nine of the top 15 "most digital-ready" countries are in Europe. Sweden is hotly tipped to become the world's first completely cashless economy. It could happen as soon as 2030.

Some experts fear the emergence of a dystopic "two-tiered urban realm" in which the poorest become cut off from mainstream commercial life by their continued dependence on traditional forms of currency and are only able to trade among themselves. As financial writer Dominic Frisby explains, "the beauty of cash is that it's a direct and simple transaction between all kinds of different people, no matter how rich or poor".

What's more, there's no intermediary involved. One party pays the other party in mutually accepted currency, and to all intents and purposes it's untraceable. Is it any wonder that banks, fin-tech firms, credit card companies, central banks, national and regional governments and United Nations agencies want to pull the plug on physical currency?

They already have vital technological and generational trends firmly on their side, as a result of which the days of cash as a commonly used payment method may well be numbered anyway. They also have the bonus of widespread public ignorance, apathy and disinterest. But they still want to hurry the process along, primarily by introducing incremental legislation that makes it harder and harder for law-abiding citizens to pay with cash.

For now, the pretext most often wheeled out for this escalating assault on physical currency is the War on Terror, but there are also the familiar bugbears such as organised crime, tax evasion and the informal economy.

These justifications merely serve to obscure the real ultimate goal: the complete—or near-complete—technocratic control over the money supply. In a world where every transaction must be electronic (i.e., traceable) and where biometric authentication systems have become the norm, the influence of big banks, corporations, tech firms and governments over our lives will be virtually unlimited.

Another important perk of cash is that it limits central banks' ability to continue conducting arguably the greatest financial heist of the modern age, i.e., negative interest rate policy (NIRP).

As long as cash exists, there's no way of preventing depositors from doing the logical thing: taking their money out of the bank and parking it where the erosive effects of NIRP can't reach it.

(Source: WolfStreet.com, 28 January 2017, http://tinyurl.com/zjc7xxv)

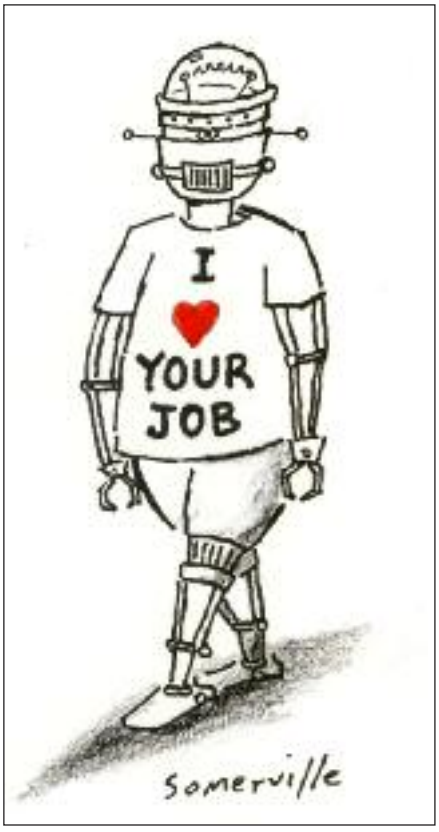
STUDY SUGGESTS LINK BETWEEN VACCINES AND BRAIN DISORDERS

by Robert F. Kennedy, Jr

Researchers from Penn State College of Medicine and Yale School of Medicine have found a disturbing association between the timing of vaccinations and the onset of certain brain disorders in a subset of children.

Analysing five years' worth of private health insurance data on children aged six to 15, researchers found that young people vaccinated in the previous three to 12 months were significantly more likely to be diagnosed with certain neuro-psychiatric disorders than their nonvaccinated counterparts.

This new study, which raises important questions about whether overvaccination may be triggering immune and neurological damage in a subset of vulnerable children (something that parents of children with autism have been saying for years), was published in the peer-reviewed journal *Frontiers in Psychiatry* on 19 January.[1]



More than 95,000 children in the database who were analysed had one of seven neuropsychiatric disorders: anorexia nervosa, anxiety disorder, attention deficit hyperactivity disorder (ADHD), bipolar disorder, major depression, obsessive–compulsive disorder (OCD) and tic disorder.

Children with these disorders were compared to children without neuropsychiatric disorders, as well as to children with two other conditions that could not possibly be related to vaccination: open wounds and broken bones.

This was a well-designed, tightly controlled study. Control subjects without brain disorders were matched with the subjects by age, geographic location and gender.

As expected, broken bones and open wounds showed no significant association with vaccinations.

New cases of major depression, bipolar disorder or ADHD also showed no significant association with vaccinations.

However, children who had been vaccinated were 80 per cent more likely to be diagnosed with anorexia and 25 per cent more likely to be diagnosed with OCD than their nonvaccinated counterparts. Vaccinated children were also more likely to be diagnosed with an anxiety disorder and with tics compared to the controls.

In a carefully worded conclusion, the researchers caution about making too much of these results, while also urging additional research. "This pilot epidemiologic analysis implies that the onset of some neuropsychiatric disorders may be temporally related to prior vaccinations in a subset of individuals," they write.

"These findings warrant further investigation, but do not prove a causal role of antecedent infections or vaccinations in the pathoetiology of these conditions."

We all know that correlation (in this case, vaccine administration in the previous 12 months and new diagnoses of brain disorders) does not necessarily mean causation. But if certain vaccines or combinations of vaccines are actually triggering brain disorders, it is imperative that we figure out which vaccines or combinations of vaccines are the culprits and what risk factors may make some children more susceptible than others.

Of particular concern is the influenza vaccine. In this study, influenza vaccination was strongly correlated with both anorexia and OCD. At the same time, new research by Centers for Disease Control and Prevention scientists has shown the mercury-containing preservative thimerosal to be as toxic and as brain damaging as other forms of mercury.[2] Yet multidose flu vaccines still contain thimerosal, and flu vaccines are recommended for pregnant women and infants in America despite questions about efficacy and the scientifically documented risks.[3]

Why look for a correlation between vaccination administration and brain disorders?

As the Penn State and Yale researchers point out, two major studies, one from a team in Norway[4] and one from an international team from Finland, Italy and Denmark[5], have shown an increased risk of narcolepsy following administration of the H1N1 flu vaccine. Another study from China[6] found an increased risk of narcolepsy after the H1N1 flu itself, which was unlikely to be linked to vaccinations.

If we look at this data from the H1N1 flu outbreaks, we see that immune responses—whether to the disease itself or to vaccination against the disease—can damage the brain.

While new discoveries about the human immune system are being made all the time, it is well understood that the immune system plays a role in brain development and in certain psychiatric conditions, including attention deficit disorders, eating disorders, obsessive disorders and depression.

It is also well understood that the body's immune response involves inflammation, which is when tissue swells in response to harmful stimulation. Harmful stimulation includes infectious diseases (that is, illnesses themselves), environmental toxins like mercury, and allergens like pollen and dust mites (which are actually benign, though an overstimulated immune system perceives them as threats).

We further know that vaccination can cause inflammation, which is part of the body's natural response to foreign substances.

Previous scientific studies have shown that when an immune reaction causes inflammation, it can negatively affect the brain.

So it is scientifically plausible and more than reasonable to investigate whether vaccination itself, which provokes inflammation, may also negatively affect the brain.

Endnotes:

1. http://tinyurl.com/grjuad4
2. http://tinyurl.com/h7r8oqa
3. http://tinyurl.com/gtfegve
4. http://tinyurl.com/jpdsgf3
5. http://tinyurl.com/zs4o5cs
6. http://tinyurl.com/42b3ndb

(Source: EcoWatch.com, 8 February 2017, http://tinyurl.com/jhvr7rn)

SMART METER DATA ANALYSIS AIDS ACCURATE CONSUMER PROFILING

by K. T. Weaver, SkyVision Solutions

From a recent peer-reviewed industry article, here is what is stated about the issue of privacy and smart meters for the "end user" of electricity:

"Conventional meters were only capable of measuring and displaying the aggregate consumption. The data was collected manually in intervals defined by [the] utility company for billing. Smart meters, however, are capable of collecting information with higher frequencies, i.e., every 15 min. Initial AMI [advanced metering infrastructure] deployed projects in Ontario, Canada, sustain readings at intervals of 5 to 60 min… Current technologies even allow for measurements every minute… By analyzing [a] smart meter's data, it is possible to perform 'consumer profiling' with an alarmingly high accuracy. Examples range from how many people live in the house, duration of occupancy, type of appliances, security and alarming systems, to inferring special conditions such as medical emergencies or [a] new born baby.

"Profiling allows extracting residents' behavior even without utilization of sophisticated algorithms and computer aided tools. Murrill and colleagues…have shown that it is possible to identify the use of major appliances in a house, by analyzing only a 15 min interval cumulative energy consumption data. Molina-Markham et al. …have shown that with the current general statistical schemes it is possible to identify the usage pattern from AMI data even without the detailed signatures of appliances or previous training."[1]

Despite the above information on how smart meters invade personal and behavioural privacy and the scores of articles I have personally written on the subject at this website, here is what Steve Kurmas, the Vice Chairman of DTE Energy, said about smart meter privacy at a 21 February hearing in Michigan:

"We believe AMI has actually improved the privacy of customers… The information we gather, despite what's been reported here from today, and record is nothing but consumption—the *exact same* information that we recorded *prior* to the AMI installation, the *exact same* information you can gather by standing next to your analogue meter and just looking at the meter. We can't tell what type of an appliance is running, or what's on or off, or who's home or not home, nor are we actually *interested* in that in any way."[2]

In case the above words are so unbelievable that you think I may have just made them up, here is a video excerpt from the hearing in Michigan [see video at http://tinyurl.com/hltf24v].

It is difficult to believe that an officer of a major corporation could either be so ignorant or could make such false statements of his own volition—and to deny the clear and unambiguous privacy risks associated with smart meters and the granular data that they collect.

First of all, the DTE Energy executive's statements are likely literally false, based upon the fact that most smart meters are capable of collecting additional energy-related data beyond usage in kilowatt hours, e.g., reactive power and voltage. You can't observe those parameters by watching an analogue meter.

British Gas smart meter in use. (Photo: athriftymrs, flickr.com)

The main difference, however, between an analogue meter and a smart meter is the frequency of data collection. No one is standing outside my home recording my meter reading every 15 minutes, and if they were I would have them arrested for trespassing. That is essentially what is happening with a smart meter, and then the data can be analysed, either by intuitive observation or software algorithms, to reveal and to profile customer behaviour, as has been reported in countless expert reports and peer-reviewed articles.

…most smart meters are capable of collecting additional energy-related data beyond usage…

Just to refute quickly one specific statement of the DTE Energy executive, that "We can't tell… who's home or not home", please refer to my article from 2014, "Utilities Can Monitor Home Occupancy Using Smart Meters".[3]

Maybe the DTE Energy executive should read the recent book *Big Data: A Revolution That Will Transform How We Live, Work, and Think* [pages 152–153]:

"[U]tilities are rolling out 'smart' electrical meters in the United States and Europe that collect data throughout the day, perhaps as frequently as every six seconds—far more than the trickle of information on overall energy use that

traditional meters gathered. Importantly, the way electrical devices draw power creates a 'load signature' that is unique to the appliance. So a hot-water heater is different from a computer, which differs from marijuana grow-lights. Thus a household's energy use discloses private information, be it the residents' daily behavior, health conditions or illegal activities."[4]

Finally, one of the reasons why I continue to write about this subject of smart meters was summarised in the recent legal brief by Naperville Smart Meter Awareness (NSMA) [page 52]:

"…The most likely *governmental use* of smart-meter data—for law enforcement purposes—may well subject citizens to loss of liberty for activities within their homes that would otherwise go undetected. The use of the data *in the marketplace*, as is likely inevitable, will lead to unwanted marketing communications, as well as the collateral harms that will arise when commercially available data gets into the hands of criminals, fraudsters, and other wrongdoers."[5]

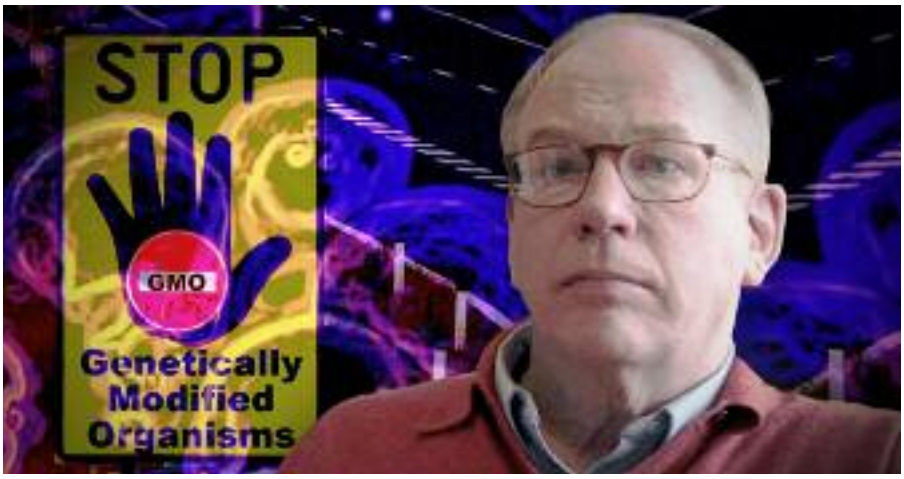
The DTE Energy executive's statement quoted in this article is an example of the dogma and propaganda that continue to lead the citizens of the USA towards the loss of liberty within their own homes, as described above.

In addition, if a utility executive cannot present real facts as part of a prepared testimony, he is just wasting everyone's time as well as deceiving them.

Endnotes:

1. http://tinyurl.com/zgjhe2y
2. Testimony of Steve Kurmas, Vice Chairman of DTE Energy, before a hearing of the Michigan House Energy Policy Committee, 21 February 2017
3. http://tinyurl.com/hxzfc6j
4. http://tinyurl.com/gq2plp4
5. http://tinyurl.com/zsksc49

(Source: SmartGridAwareness.org, 25 February 2017, http://tinyurl.com/hltf24v)



Author F. William Engdahl opposes GMOs. (Photo: Miran Rijavec, flickr.com)

GENETICS IS THE NEW EUGENICS: GMOs AND POPULATION REDUCTION

The following is edited from an interview with F. William Engdahl…

Last year, we had a series of mergers in the agribusiness's GMO corporations worldwide. This has created an alarming concentration of corporate power in the hands of basically three corporate groups.

The first one is Bayer AG of Germany, which made a friendly takeover of Monsanto Company. The reason for this is that Monsanto became identified in the public mind as pure evil and everything bad about GMOs, which is accurate. This became a burden on the whole GMO project. So in stepped Bayer, which has a friendly image of a nice, harmless, aspirin company but in fact is the company that invented heroin in the 1880s and made gas for the ovens of Auschwitz during World War II. It's one of the dirtiest agribusiness companies in the world, with a series of homicides as well as pesticides that killed off bee colonies and many other things that are essential to life and to nature.

ChemChina, China's state-owned chemical giant, for some reason took over Swiss company Syngenta AG, which makes weedkillers.

Then, Dow Chemical Company and DuPont merged their GMO businesses.

So we have three gigantic corporate groups worldwide controlling the genetically modified part of the human food chain. These crops use chemicals that by contract must be applied to those corporations' GMO seeds. If you buy Roundup Ready® soybean or corn seeds, you must use Monsanto's (now Bayer's) Roundup. This gives more corporate power to the GMO industry than ever before, and that's an alarming trend.

The industry is putting pressure on the bureaucracy in Brussels. There was a massive public campaign against the renewal of the licence for glyphosate with the European Commission. Glyphosate is the most widely used weedkiller in the world and is the main ingredient in Monsanto's Roundup. The other ingredients are Monsanto's corporate secret, but the combination of them makes it one of the most deadly weedkillers.

The World Health Organization's body responsible for assessing genetic dangers made a ruling last year that glyphosate is a probable cancer-causing agent.

The 15-year licence for glyphosate came up for renewal last year. The European Commission was prepared to renew it automatically for another 15 years. The European Food Safety Authority, responsible allegedly for the health and safety of European citizens, recommended approval based on a study by the German food safety agency that was simply lifted 100 per cent from

studies by the private corporation Monsanto! So, the whole chain was corrupt from the beginning and all the information was rigged.

In reality, tests have shown that in minuscule concentrations, lower than the recommended levels in Europe and in the USA, glyphosate causes kidney disease, liver disease and other illnesses that are potentially fatal.

Now, glyphosate has shown up in urine tests, in urban drinking water, in gardens, in ground water and so forth. And that gets into the system of pregnant women, for example.

The European Commission, despite receiving a million petition signatures—this is record setting—and despite recommendations from leading scientists around the world not to renew the licence, made a compromise under huge industry pressure and renewed it for 18 months. Why did it renew the licence for that time? Because it was told by Bayer and Monsanto that at the end of 18 months Bayer's takeover of Monsanto will be completed and Bayer is going to replace glyphosate with another, likely more deadly, toxin not as well known as glyphosate. So, they simply bought time. And that is just one example.

"This is all covert population reduction."

This GMO agenda is not about health and safety. It's not about increasing crop yields: that's a lie that has been proven in repeated tests in North America and all around the world. Crop yields for farmers, using GMO plants, may increase slightly for the first one to two harvest years, but ultimately decline after three to four years. And not only that! We've been promised by Monsanto and other GMO giants that the use of chemicals will be lessened because of these "wonderful" traits that GMO plants resist. In fact, the weeds become resistant and you have superweeds, which are five to six feet [~1.5 to 1.8 metres] in height and choke out everything. It's a catastrophe. So farmers end up using added weedkillers to kill the superweeds. This whole mad playing-around with the genetic make-up of nature has been a disaster from the beginning.

The real agenda of GMO, which I have documented in great detail in my book *Seeds of Destruction*, comes from The Rockefeller Foundation. It comes out of the 1920s–1930s eugenics movement. The Rockefeller Foundation during the 1930s, right up to the outbreak of World War II when it became politically embracing too, financed the Nazi eugenics experiments of the Kaiser Wilhelm Institute in Berlin and in Munich. Why did they do this? Their goal was the elimination of what they called "undesirable eaters". That is called *population reduction*.

After the war, the head of the American Eugenics Society, who was a good friend of John D. Rockefeller, said at the Society's annual conference: "From today, the new name of eugenics is genetics."

Moreover, if you keep that in mind, genetic engineering, the Human Genome Project and so forth are all scientific frauds. Russian scientists have proven that the entire Human Genome Project utterly disregarded 98 per cent of the scientifically valuable data in favour of two per cent that was complete nonsense and a waste of billions of dollars.

Therefore, eugenicists have been obsessed with the idea of how to reduce human population in a way that would not be so obvious as simply going out and carrying out mass sterilisation.

Actually, they *have* done that in Central America together with the World Health Organization by giving certain vaccines that they cooked up to have abortive effects. Therefore, the women of child-bearing age in Central America were given these vaccines against tetanus. The Catholic Church became suspicious because the shots were given only to women, not to men. And they found that buried in the vaccine was an abortive effect that made it impossible for women to conceive and bear children. This is all covert population reduction.

These are the western patriarchs who believe they are the gods, sitting on the throne with great dignity, controlling mankind. I think they are a bunch of fools, but they have this agenda of genetic manipulation. It's against nature. It's chemically unstable.

(Photo: Waywuwei, flickr.com)

I have to congratulate the Russian Federation that it had the courage and moral concern for its own population to ban GMO cultivation across Russia. That was a step forward for mankind. I would hope that Russia will use its influence to get China to do a similar thing, because Chinese agriculture is in dire need of some healthy Russian input. This step by Russia to make agriculture GMO free is a great step forward for mankind.
(Source: Katehon.com, 2 February 2017, http://tinyurl.com/jdgnva7)

DONALD TRUMP, SAUDI ARABIA AND THE PETRODOLLAR

by Nick Giambruno

US President Barack Obama pulled out his veto pen 12 times during his presidency. Congress overrode him only once…

In late 2016, Obama vetoed the bill for the Justice Against Sponsors of Terrorism Act (JASTA). The Act would allow 9/11 victims to sue Saudi Arabia in US courts.

With only months left in office, Obama wasn't worried about the political price of opposing the bill. It was worth protecting Saudi Arabia and the petrodollar system which underpins the US dollar's role as the world's premier currency.

Congress didn't see it that way, though. Those up for re-election couldn't afford to side with Saudi Arabia over US victims. So Congress voted to override Obama's veto, and JASTA became the law of the land.

The Saudis, quite correctly, see this as a huge threat. If they can be sued in US courts, their vast holdings of US assets are at risk of being frozen or seized.

The Saudi Foreign Minister promptly threatened to sell all of the country's US assets. Basically, Saudi Arabia was threatening to rip up the petrodollar arrangement which underpins the US dollar's role as the world's premier currency.

Unlike every President since the petrodollar's birth, Donald Trump is openly hostile to Saudi Arabia. Recently he put this out on Twitter: "Dopey Prince @Alwaleed_Talal wants to control our U.S. politicians with daddy's money. Can't do it when I get elected."

The "dopey prince" that Trump is referring to is Prince Alwaleed bin Talal, a prominent member of the Saudi royal family. He's also one of the largest foreign investors in the US economy, particularly in media and financial companies.

The Saudis openly backed Hillary Clinton during the 2016 election. In fact, they "donated" an estimated US$10 million to $25 million to the Clinton Foundation, making them the most generous foreign donors.

Besides Hillary Clinton, the single biggest loser from the US presidential election was Saudi Arabia. The Saudis did not want Donald Trump in the White House. And not because of some bad blood on Twitter. There are real geopolitical issues at stake.

At the moment, President Trump seems determined to walk back on US support for the so-called "moderate" rebels in Syria.

The Saudis are furious with the US for not holding up its part of the petrodollar deal. They think that the US should have already attacked Syria as part of its commitment to keep the region safe for the monarchy.

Toppling Syria's President Bashar al-Assad is a long-standing Saudi goal. But a President Trump makes that unlikely. That's not good for Saudi Arabia's position in the Middle East, nor for its relationship with the US.

This is just one of the ways in which President Trump will hasten the death of the petrodollar.

I loathe quoting a neoconservative historian like Dr Bernard Lewis, but even a broken clock is right twice a day:

The Saudis are furious with the US for not holding up its part of the petrodollar deal.

"Imagine if the Ku Klux Klan or Aryan Nation obtained total control of Texas and had at its disposal all the oil revenues, and used this money to establish a network of well-endowed schools and colleges all over Christendom peddling their particular brand of Christianity. This is what the Saudis have done with Wahhabism. The oil money has enabled them to spread this fanatical, destructive form of Islam all over the Muslim world and among Muslims in the West. Without oil and the creation of the Saudi kingdom, Wahhabism would have remained a lunatic fringe in a marginal country."

This is actually an apt description of Wahhabism, a particularly virulent and intolerant strain of Sunni Islam that most Saudis follow. ISIS, al-Qaeda, the Taliban and a slew of other extremists also follow this puritanical brand of Islam. That's why Saudi Arabia and ISIS use the same brutal punishments, such as beheadings.

Many Wahhabis consider Muslims of any other flavour—like the Shia in Iran, the Alawites in Syria or non-Wahhabi Sunnis—to be apostates worthy of death. In many ways, Saudi Arabia is an institutionalised version of ISIS. There's even a grim joke that Saudi Arabia is simply "an ISIS that made it".

After living in the Middle East for

The Saudis didn't want Donald Trump in the White House. (Photo: Gage Skidmore)

three years, I find it clear that many people in the region despise everything about Wahhabism. Yet it flourishes in certain Sunni communities, among people who feel they have nowhere else to turn.

It's also widely believed in the Middle East that western powers deliberately fostered Wahhabism, to a degree, to keep the region weak and divided—and as a weapon against Shia Iran and its allies. That includes Syria and post-Saddam Iraq, which has shifted its allegiance towards Iran.

Thanks to WikiLeaks, we know that the Saudi and Qatari governments, which are also the two largest foreign donors to the Clinton Foundation, wilfully financed ISIS to help topple Bashar al-Assad of Syria. Julian Assange says that the email revealing this is the most significant among the Clinton-related emails that his group has released. Here's an excerpt of the relevant interview with Assange:

Interviewer: *Of course, the consequence of that is that this notorious jihadist group, called ISIL or ISIS, is created largely with money from people who are giving money to the Clinton Foundation?*

Julian Assange: *Yes.*

Interviewer: *That's extraordinary…*

With all this in mind, Russia's President Vladimir Putin opened an unusual conference of Sunni Muslim clerics recently [late August 2016]. It took place in Grozny, the capital of Chechnya, a Sunni Muslim region within Russia's southwestern border.

The conference, which included 200 of the top non-Wahhabi Sunni Muslim clerics, issued an extraordinary statement labelling Wahhabism "a dangerous deformation" of Sunni Islam.

These clerics carry serious weight in the Sunni world. The Grand Imam of Egypt's al-Azhar Mosque, one of the most important Islamic theological centres, was among them. (Egypt is the Arab world's most populous Sunni country.)

Russia's President Vladimir Putin, photographed with the King of Saudi Arabia, Salman bin Abdulaziz Al Saud, in November 2015. (Photo: en.kremlin.ru)

Basically, Putin gathered the world's most important non-Wahhabi clerics to "excommunicate" the Saudis from Sunni Islam. In other words, Putin is going for the jugular of the petrodollar system.

Russia and Saudi Arabia have been enemies for decades. The Russians have never forgiven Saudi Arabia (or the US) for supporting the Afghan mujahideen that drove the Soviet Army out of Afghanistan. And they haven't forgiven the Saudis for supporting multiple Chechen rebellions.

As far as I know, the British writer Robert Fisk was the only western journalist to cover this conference. Here's Fisk: "Who are the real representatives of Sunni Muslims if the Saudis are to be shoved aside? And what is the future of Saudi Arabia? Of such questions are revolutions made."

If the Saudis are shoved aside, this could strike a fatal blow to the petrodollar system.

The truth is, the petrodollar system is in its death throes. It doesn't matter if the Saudis wilfully abandon it or if it crumbles because the kingdom implodes. The end result will be the same.

Right now, the stars are aligning against the Saudi kingdom. This is its most vulnerable moment since its 1932 founding.

That's why I think the death of the petrodollar system is the number-one "black swan event" for 2017.

I expect the dollar price of gold to soar when the petrodollar system crumbles in the not-so-distant future. You don't want to find yourself on the wrong side of history when that happens.

But that brings up another crucial point. There's also likely to be severe inflation.

The petrodollar system has allowed the US government and many Americans to live way beyond their means for decades. The US takes this unique position for granted. But it will disappear once the dollar loses its premier status.

This will likely be the tipping point…

Afterwards, the US government will be desperate enough to implement capital controls, people controls, nationalisation of retirement savings and other forms of wealth confiscation.

I urge you to prepare for the economic and sociopolitical fallout while you still can. Expect bigger government, less freedom, shrinking prosperity…and possibly worse. It's probably not going to happen tomorrow. But it's clear where the trend is headed.

It is very possible that one day soon, Americans will wake up to a new reality.

(Source: InternationalMan.com, 22 February 2017, http://tinyurl.com/js62s4w

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The EMF Plague

Photo: Rodion Kutsaev, unsplash.com

by Donna Fisher © February 2017
Part 2 of 2

The inescapable conclusion of these findings is that the twentieth century epidemic of the so-called diseases of civilization, including cardiovascular disease, cancer, diabetes and also suicide, was caused by electrification and the unique biological responses we have to it. A large proportion of these diseases may therefore be preventable.

— Samuel Milham, MD,
Dirty Electricity[49]

The West Adopted the Wrong Model

Everyone is affected biologically by electromagnetic fields (EMF), from babies and manufacturers to those who do all they can to prevent policy change, going against the precautionary principle of public health: "First, do no harm."

Russia and Eastern European countries have been at the forefront of EMF research for decades, enacting stricter EMF exposure standards than in the West and most European countries.[50]

Current guidelines/safety limits for EMF adopted by governments in most western countries were developed by industry, based on out-of-date research on thermal effects, i.e., the short-term effects, instantaneous heating—the heating of tissue as in a microwave oven. "If it does not heat you, it does not hurt you."

The argument that there are no adverse biological effects from EMF is no longer valid because effects have been documented at levels well below those that are able to heat body tissue. Current guidelines/safety limits based on the

We are drowning in a sea of electromagnetic radiation. (Photo: Jacob Ufkes, unsplash.com)

thermal effects do not account for non-thermal (athermal) biological effects—the cumulative effects of constant exposure to multiple EMF sources all day and all night.

For example, a country's exposure guideline for ELF EMF can be 1,000 mG units for the public and 5,000 mG units (magnetic field measured with a gaussmeter) for occupational settings. Investigative reports quote that the measurements taken fall within current guidelines/safety limits which are not designed to protect against cancer risks but, rather, shocks and burns. In practical terms, this means that you can be exposed to 999 mG units and the report will state that the exposure is under the guidelines/safety limits.[51] *The BioInitiative 2012 Report*, which addresses biological effects, recommends exposures as low as 1 mG (0.1 microtesla [μT]).[52]

ELF EMF was classified as a Group 2B carcinogen by the International Agency for Research on Cancer (IARC) in June 2001.[53] The IARC "concluded that ELF magnetic fields are possibly carcinogenic to humans, based on consistent statistical associations of high level residential magnetic fields with a doubling of risk of childhood leukaemia".[54]

In regard to RF EMF, since 2007 five studies of cellphone-tower-level radio-frequency radiation (RFR) exposures at intensities ranging from less than 0.001 μW/cm^2 to 0.05 μW/cm^2 have reported "headaches, concentration difficulties and behavioral problems in children and adolescents; and sleep disturbances, headaches and concentration problems in adults".[55]

Dr Martin Blank makes several statements in *The BioInitiative 2012 Report*, including: "The mechanism involves direct interaction of EMF with the DNA molecule (claims that there are no known mechanisms of interaction are patently false)"; "EMF stimulates stress proteins (indicating an assault on the cell)"; and "EMF efficiently harms cells at a billion times lower levels than conventional heating".[56]

The Environmental Health Trust, led by epidemiologist Dr Devra Davis, states that hundreds if not thousands of studies show adverse health effects from EMF exposure, such as headaches, sperm damage and many types of cancer including brain cancer. These were "the kinds of studies that led the World Health Organization (WHO) to declare radio frequency radiation [RFR] a Group 2B (possible) Human Carcinogen" in 2011.[57]

Many experts are calling for the vested interests who have infiltrated the organisations installed to protect us to be removed.[58] Some experts agree that the IARC classification for RF EMF should be upgraded to a Group 1 carcinogen in line with Dr Lennart Hardell's work[59], based on the science[60], the cancer cluster study at La Quinta Middle School[61] and the difference in statistics with the Amish who live without electricity.[62] The current cancer pattern among the Amish is like the cancer mortality pattern of rural US residents before their residences were electrified.[63]

Many WHO scientists, who served as IARC advisers on RF radiation for the 2011 working group, and other EMF experts now state that additional scientific evidence indicates that wireless radiation should be reclassified as a Group 2A "probable" human carcinogen.[64]

...studies show adverse health effects from EMF exposure, such as headaches, sperm damage and many types of cancer...

Whether or not RF EMF is upgraded to a Group 1 or a Group 2A classification, the concern is that we are now continually immersed in a sea of EMF exposure every day and every night, unlike with ionising radiation. Not everyone is exposed to ionising radiation, i.e., from X-rays, mammograms, CT scans and nuclear bomb fallout, and certainly not every day and every night. Exposure to ionising radiation is cumulative, and a Smart Card has been introduced to monitor patients' radiation dosages. The first meeting dedicated to the Smart Card project was held in Vienna in 2009.[65]

EMF exposure is also cumulative, and no one knows their EMF tipping point. The Copenhagen Resolution of 2010 and the International EMF Scientist Appeal in 2015 called for "White-Zones" (low radiation/radiation-free/low EMF/no EMF zones) to be established.[66]

Cellphone Radiation Causes Cancer

In 1995, Drs Henry Lai and Narendra Singh of the University of Washington, Seattle, reported in the journal *BioElectroMagnetics* that RF EMF could damage DNA in the brain cells of rats. In their study, they used a frequency of 2,450 MHz (2.45 GHz).[67, 68]

Since then, findings from other studies have indicated a link between long-term mobile phone use and three types of tumours: glioma, acoustic neuroma and parotid gland tumour. The parotid gland—the largest salivary

gland—is located near the jaw and ear, where mobile phones are typically held during use.

In May 2016, the US National Toxicology Program (NTP) released an early report[69] with partial results of the current study on the carcinogenicity of RF EMF in male and female rats and mice. Senior managers saw the need to release the results as a public health imperative. The NTP findings show that as the intensity of the radiation increased, so did the incidence of cancers: rare brain tumours (gliomas) and nerve tumours (schwannomas). None of the unexposed animals developed either tumour.[70] An acoustic neuroma is a type of schwannoma. The two types of cancer, glioma and schwannoma, have been found in human studies of cellphone use.[71] With regard to the parotid gland, a rat does not hold a mobile phone to its head!

Dr Ron Melnick, the now retired Senior Toxicologist and Director of Special Programs in the Environmental Toxicology Program at the National Institute of Environmental Health Sciences (NIEHS) of the US National Institutes of Health (NIH), led the team that designed the NTP study. Regarding the draft findings, he states that they "should put to rest the old argument that RF radiation cannot cause DNA damage".[72] Dr Melnick also states: "This is a major public health concern because the cells which became cancerous in the rats were the same types of cells as those that have been reported to develop into tumors in cell phone epidemiological studies. For this to be a chance coincidence would be truly amazing."[73] He further notes: "The NTP tested the hypothesis that cell phone radiation could not cause health effects and that hypothesis has now been disproved. The experiment has been done and, after extensive reviews, the consensus is that there was a carcinogenic effect."[74]

The researchers controlled the temperature of the animals to prevent heating effects, so the cancers were caused by a *non-thermal* mechanism. The NTP study signals were designed to mimic human exposure to mobile phone radiation.[75]

According to Dr Melnick: "[E]very known human carcinogen induced tumours in animals when adequately tested. Animals are used as models in toxicity and carcinogenicity studies because it is unethical to intentionally expose humans to agents that might cause an adverse health effect such as cancer that has a long latency period between exposure and manifestation of disease."[76]

The International EMF Scientist Appeal's statement on the NTP study that cellphones cause cancer reads: "This $25 million study, executed by the US government, provides support for what we are stating in the 'International EMF Scientist Appeal' that precautionary approach should be exercised and lower electromagnetic field exposure guidelines should be set."[77]

Dr Samuel Milham in *Dirty Electricity* discusses the first long-term, low-level animal study of non-thermal microwave exposures conducted in the United States. He attended a 1984 meeting of The Bioelectromagnetics Society where a research group from the University of Washington, Seattle, headed by Dr William Arthur Guy, presented the results of a $4.5-million study conducted for the US Air Force. One of the slides showed 18 cancers in the 100 exposed rats, but only five cancers in the 100 sham-exposed controls. A quick calculation told Dr Milham that this difference was "very unlikely to have happened by chance". In the experiment, the exposures were to non-thermal levels of pulsed and modulated RF at microwave frequencies (2,450 MHz). He comments that even today this group refuses to acknowledge in its interpretation that "this well-done study showed RF microwave exposure to be a potent animal carcinogen".[78]

Babies, children and pregnant women are particularly vulnerable to EMF emissions from electronic devices. (Photo: Chippy, umpcportal.com)

The Menace of EMF and Dirty Electricity

As Dr Milham points out: "Since 1900, there has been a gradual increase in mortality rates of cancer, cardiovascular disease, diabetes, and suicide, the so-called diseases of civilization. This is in sharp contrast to the gradual decline in the death rate from all causes, which was reflecting increasing control of infectious diseases."[79]

In the preface to *Dirty Electricity*, Dr Milham explains: "When Thomas Edison began wiring New York City with a direct current [DC] electricity distribution system in the 1880s, he gave us the magic of electric light, heat and power, but inadvertently opened a Pandora's Box of unimaginable illness and death."[80] In 1893, Nikola Tesla demonstrated the first alternating current (AC) power system for the distribution of electricity, which was to

Telephone switchboard operators working in 1952. (Photo: Seattle Municipal Archives, Washington, USA)

claim dominance and spread around the world.

In the early 20th century, the first known people adversely affected by EMF were telegraph line installers and telephone switchboard operators. In 1907, Bell switchboard operators went on strike in Toronto, Canada, because of their mysterious illness. The symptoms included nerve disorders (neurasthaenia or nervous asthaenia), depression, extreme anxiety, exhaustion, convulsions, unconsciousness, rashes and a host of other malaises. Following World War II, with increasing use of radio and microwave frequencies, by the 1950s radar operators were suffering from symptoms similar to those of the telephone switchboard workers—symptoms that were called "radio wave or microwave illness".[81]

As Dr Milham observes: "Very recently, new research is suggesting that nearly all the human plagues which emerged in the twentieth century, like common acute lymphoblastic leukemia in children, female breast cancer, malignant melanoma and asthma, can be tied to some facet of our use of electricity".[82] For instance, before 1960 in Sweden, the asthma level was essentially zero or very low. Statistics indicate that a drastic change in environmental conditions happened around or before 1960 and the rate of asthma increased dramatically, as did the melanoma skin cancer rate.[83] In fact, in 1955 FM radio and TV transmitters were introduced to allow for FM radio and TV reception.[84]

While conducting his research over several decades, Dr Milham noticed "a strong positive correlation between residential electrification and mortality for some adult cancers, including female breast cancer, in the 1930 and 1940 vital statistics".[85] On further research, Dr Milham concludes that he would consider "male breast cancer a sentinel cancer for EMF exposure like mesothelioma is a sentinel for asbestos exposure". He reports on an epidemic of male breast cancer at the Marine Corps Base Camp Lejeune in North Carolina. The Marines had identified 55 male breast cancer cases and thought they were "caused by solvent contamination of drinking water at the base". Dr Milham comments: "While there are studies that link solvents with a few cancers, the more likely culprit is EMFs."[86] Dr Magda Havas submitted testimony to the Workplace Safety and Insurance Appeals Tribunal in 2008 for female employees of Bell Canada in a workplace breast cancer cluster.[87]

In mid-2008, Dr Havas labelled environmental diabetes as "'Type 3' diabetes".[88] This refers to cases of diabetes where the blood sugar level is also affected by an environmental trigger such as dirty electricity. Dr Milham states: "Magda Havas has shown that dirty electricity raises blood glucose levels and changes insulin requirement in diabetics. The blood glucose connection could be how dirty electricity increases cardiovascular disease incidence. The major mortality and morbidity in diabetics is due to acceleration of cardiovascular diseases."[89]

In 2009–10, Dr Milham's ground-breaking study was published on the history of electrification in the USA.[90] Dr Milham researched when 48 states of the USA were electrified. He also compared the urban populations that lived with electricity with the rural areas that did not have electricity, which led to the inescapable conclusion that the 20th-century epidemic of so-called diseases of civilisation, including cardiovascular disease, cancer, diabetes and also suicide, was "caused by electrification and the unique biological responses we have to it".[91]

…the first known people adversely affected by EMF were telegraph line installers and telephone switchboard operators.

Dr Milham states that the health and mortality effects of electrification happened so gradually and on such a wide scale that they went virtually unnoticed, and the major illnesses that can be attributed to them came to be considered "normal" diseases of modern civilisation. Dr Milham writes in the study: "It seems unbelievable that mortality differences of this magnitude could go unexplained for over 70 years after they were first reported and 40 years after they were noticed."[92] He comments: "The data to prove this has been available since 1930, but no one investigated it."[93]

Nationally in the USA, Dr Milham notes, "…the total cancer rate in 1930 was 58.8 percent higher in urban than in rural areas. This pattern indicates that the twentieth century epidemic of cancers and cardiovascular diseases was not caused by lifestyle variables as is commonly assumed, but rather by EMF exposure, and probably dirty

electricity (Milham, 2010[94]). The price we have paid for the convenience of electricity in morbidity and mortality since the early 1900s almost defies quantification."[95]

However, "the Electromagnetic Age" grew rapidly, even though the US Naval Medical Research Institute showed over 100 effects in its 1972 publication "Bibliography of Reported Biological Phenomena ('Effects') and Clinical Manifestations Attributed to Microwave and Radio-Frequency Radiation".[96]

It was not until 1979 that concern about EMF became more prominent on the release of the Wertheimer–Leeper study.[97] Dr Milham comments: "By the time EMF epidemiology began in earnest in 1979, the entire population was exposed to EMFs. There was then simply no way to find an unexposed control group; therefore, all studies were potentially biased."[98]

Dr Milham explains that from the onset of the electrical grid, electrified populations have been exposed to dirty electricity—RF EMF—due to the grid's inherent design. He says it is possible that some of the effects attributed to magnetic fields (mG units) from electricity come from transients. "Magnetic fields may, therefore, be a surrogate for dirty power exposures."[99] The technical term for dirty electricity is "high-frequency voltage transients".[100] The electricity industry also uses the terms "dirty power" and "harmonic pollution".

Regardless of where the RF EMF that penetrates our body comes from, whether from electrical wiring in the home, school or workplace or from wireless technologies, our exposure and proximity to this RF EMF increased dramatically as the 20th century progressed. In the 1970s, manufacturers changed to energy-efficient appliances which created higher levels of dirty electricity. Many of the electronic devices which generate magnetic fields also inject dirty power into the utility wiring. Today we hold microwave transmitters—mobile phones—against our head and in our pocket without thinking of the consequences, not only for ourselves but for the developing foetus, in particular the eggs of the female foetus. The younger the person, the greater the effect.

Commenting on the alarming conclusion of Robert O. Becker, MD, that "60-Hz magnetic fields cause human cancer cells to permanently increase their rate of growth by as much as 1600 percent and to develop more malignant characteristics"[101], Dave Stetzer, an expert in poor power quality, suggests that this increased growth rate would have been due to the presence of dirty electricity.[102] In 1990, when Dr Becker's book was published, research on dirty electricity was very much in its infancy.

Stetzer attended the International Conference on Electromagnetic Fields and Human Health in September 2003 in the Republic of Kazakhstan. There he presented his findings and those of his colleague Dr Martin Graham, Emeritus Professor of Electrical Engineering and Computer Science at the University of California, Berkeley, on dirty electricity.[103] Two months later, the Head State Sanitary Physician of Kazakhstan issued sanitary–epidemiologic norms addressing the 1.0–400 kHz frequency range (RF EMF). A limit of 50 GS [Graham–Stetzer] units—industrial—was mandated to protect workers.[104]

Stetzer explains that at 1.7 kHz all this electromagnetic energy dissipates internally in the body and the electrons are excited and start to oscillate at the same rate. This is one reason why the Russians have different guidelines that change at 2 kHz.[105] Most laptops and computers generate 12.5–50 kHz, while printers, photocopiers, PlayStations and most electronic equipment generate 10–100 kHz. The non-ionising frequency range extends from Hz to kHz to MHz to GHz to THz.

Children's exposure to computers and wireless technologies should be kept to a minimum. (Photo: Lucélia Ribeiro, flickr.com)

Dr Vladimir Kozlovsky, a Professor of Medicine and the Science Deputy Director of Infracos-Ecos in Almaty, Kazakhstan, compiled a list of norms that need to be in place to limit children's exposure to computers based on their age. He recommends that "children younger than 7 years be exposed to no more than 5 minutes, primary school children to no more than 10 minutes, 5th grade and older children to be limited to 30 minutes per day, and that teenagers older than 16 years limit their computer exposure to less than 3 hours daily … [and] pregnant women not be exposed to computers at all".[106]

Dr Milham notes that dirty electricity "…helped explain the fact that professional and office workers, like the school teachers, have high cancer incidence rates. It also explained why indoor workers had higher malignant melanoma rates, why melanoma occurred on part[s] of the body which never are exposed to sunlight, and why melanoma rates are increasing while the amount of sunshine reaching earth is stable or decreasing due to air pollution."[107]

In the report on their La Quinta Middle School study,

Dr Milham and Lloyd Morgan "… postulate that the dirty power in the classroom wiring exerted its effect by capacitive coupling which induced electrical currents in the teachers' bodies… High frequency dirty power [dirty electricity] travels along the electrical distribution system in and between buildings and through the ground. Humans and conducting objects in contact with the ground become part of the circuit."[108]

World Health Organization and EMF Exposure

In its "Electromagnetic fields and public health: Electromagnetic hypersensitivity" backgrounder dated December 2005, the WHO states: "For some time a number of individuals have reported a variety of health problems that they relate to exposure to EMF. While some individuals report mild symptoms and react by avoiding the fields as best they can, others are so severely affected that they cease work and change their entire lifestyle. This reputed sensitivity to EMF has been generally termed 'electromagnetic hypersensitivity' or EHS."[109]

The WHO report on EHS accepts that even though symptoms differ from individual to individual, the most commonly experienced symptoms which afflicted individuals attribute to EMF exposure include "dermatological symptoms (redness, tingling, and burning sensations) as well as neurasthenic and vegetative symptoms (fatigue, tiredness, concentration difficulties, dizziness, nausea, heart palpitation, and digestive disturbances)". The WHO report adds: "The symptoms are certainly real and can vary widely in their severity. Whatever its cause, EHS can be a disabling problem for the affected individual." As all people are not the same, each person may experience different symptoms with different levels of exposure.[110]

However, the WHO maintains that "EHS has no clear diagnostic criteria and there is no scientific basis to link EHS symptoms to EMF exposure".[111]

Dr Havas elaborates: "[N]eurasthenia, radio wave illness and electrohypersensitivity are one and the same. However, neurasthenia is classified as an illness in the WHO list of diseases and EHS is relegated to idiopathic environmental illness, which basically means we don't know the cause."[112]

The 2015 International EMF Scientist Appeal states that the WHO continues to maintain that there is insufficient evidence to justify lowering the quantitative exposure limits. The Appeal was signed "…to encourage the World Health Organization (WHO) to exert strong leadership in fostering the development of more protective EMF guidelines, encouraging precautionary measures, and educating the public about health risks, particularly risk to children and fetal development. By not taking action, the WHO is failing to fulfil its role as the preeminent international public health agency."[113]

In January 2017, Olga Sheean released a report, "World Health Organization: Setting the standard for a wireless world of harm…"[114], stating that the WHO is "failing to protect its global citizens from this pervasive pollutant in four key ways": industry infiltration; intentional ignorance; denial of the science; and disregard for humanity.[115] A former international civil servant and brain-tumour survivor who is also electrosensitive, Sheean has begun gathering signatures to demand the replacement of the WHO's International EMF Project's industry-biased director, an electrical engineer with no medical or health credentials.[116]

Sheean states that in early 2017, the WHO's EMF Project is expected to deliver its "Radio Frequency Fields: Environmental Health Criteria Monograph (RF EHC)".[117] She says that the draft monograph is incomplete and is missing important chapters and information.[118] When the final monograph is published, it will be considered to be authoritative and used by many countries in setting standards.

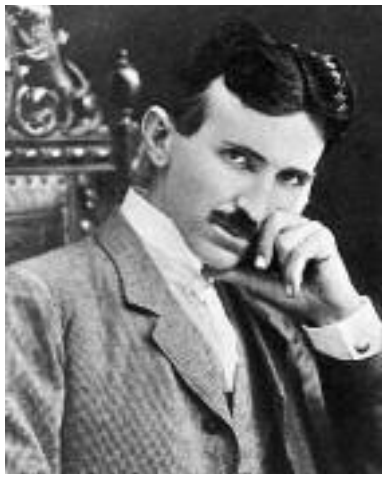
Protecting the Body Electric

All living cells, in fact whole living beings, are dynamic, coherent, electrical systems reliant on bioelectricity for life's most basic metabolic processes. Electrical rhythms in our brain can be influenced and altered by external signals—altered informational content—which can swamp natural electromagnetic cues and result in dysregulation and desynchronisation of normal biological rhythms that direct growth, development, metabolism and repair mechanisms to maintain health. EMF alters the electrical signalling which directs the chemical messaging system in the brain. As the brain directs all body processes, physical and mental disorders result from EMF exposure.[119]

Our body and brain operate on inherent, natural, subtle signals, beneficial information which is dependent on exquisitely timed internal cues and life-promoting signals with information from Nature. It is critical to life that this relationship remains intact. EMF is a human-made signal

that also contains information. Peak millisecond radiation bursts have an impact on our body at the cellular level. Cells provide energy and safeguard DNA. The overall activity of a living creature depends on the total activity of all the individual cells: if your cells function poorly, then tissues and organs will become compromised. Biological systems of the heart, brain and gut are dependent on the cooperative actions of cells.

The Environmental Health Trust notes: "Experimental research shows chronic exposure to wireless reduces brain cells and causes brain cell death in the memory and learning centers of the brain. Cell phone radiation has also been shown to alter brain activity in humans. In 2011, NIH research found just 50 minutes of a wireless transmitting device (cell phone) next to the brain increases glucose in the part of the brain most exposed. Preliminary 3G and 4G research has further shown that non-thermal levels of this radiation alter the brain's electrical activity."[120]



Nikola Tesla (1856–1943), photographed c. 1896.

According to *The BioInitiative 2012 Report*: "If the blood-brain barrier is vulnerable to serious and ongoing damage from wireless exposures, then we should perhaps also be looking at the blood-ocular barrier (that protects the eyes), the blood-placenta barrier (that protects the developing fetus), the blood-gut barrier (that protects proper digestion and nutrition), and the blood-testes barrier (that protects developing sperm) to see if they too can be damaged by RFR."[121]

Lessening exposure to EMF is vital for our wellbeing today but also for future generations, as EMF is known to enhance the damage from other toxic agents.[122]

LG Electronics launched its first appliances embracing "smart grid–ready" technologies on 19 April 2011 in Seoul, South Korea. (Photo: LG, flickr.com)

As paediatric neurologist Dr Martha Herbert warns: "We see *de novo* mutations, which [are] mutations that the babies have that the parents don't have, and that can be caused from genetic damage."[123]

Extrapolated figures suggest that by 2017, 50 per cent of the population may be affected by exposure to EMF. "With enough exposure, it is possible that EHS could manifest in all members of the population. Many children are affected but undiagnosed. They are more likely to develop EHS since their exposure is higher and their systems are developing."[124]

British physician Erica Mallery-Blythe, MD, clarifies: "EHS is a cumulative, exposure-triggered condition, and exposures are rising rapidly… If EHS is unmanaged and there is general deterioration, there will be reaction to an increasingly broad range of frequencies at increasingly low intensities, i.e., the number of devices complained of triggering symptoms will increase and symptomatic distances will decrease. Tendency towards MCS [multiple chemical sensitivity] will also increase and irreversibility will become more likely."[125]

Everyone is electrically sensitive. Some people are *hypersensitive*. The threshold varies depending on each individual. EHS is recognised as a functional impairment in Sweden.[126]

Dr Havas, considered the world's leading EMF expert, states: "Putting Wi-Fi in schools; allowing cordless phones that radiate constantly to be manufactured; placing wireless baby monitors near an infant; using a wireless tablet, smart phone or computer while pregnant; holding a cell phone next to the head and keeping a cell phone in a bra or hip pocket or under a pillow; placing cell phone antennas near homes, schools and on hospitals; metering electricity, water and gas with wireless smart meters and designing smart appliances for the home will be viewed by future generations as dumb technology generated by greed for a population that is largely ignorant of the consequences. We need to protect the health and wellbeing of future generations, because without them there is no future! If we don't do it…who will?"[127]

Towards Safer Technologies

Instrumental in giving us the ability to use our sophisticated technologies today, Nikola Tesla also unknowingly gave us a solution. Tesla warned against the use of X-rays and also pondered what effects the generation of electricity would have on humans. In 1899 he discovered scalar energy, which he termed "radiant

Continued on page 80

What are people saying about Blushield?

"... the first day that we plugged in our Blushield EMF device, my severe pain was gone! I find this almost unbelievable, but it has been over two weeks now since I started using the device and I have had none of the disabling nerve pain."
— Ann H.

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"Most people do not want to change in regards to their use of wireless devices. 'Just give me the magic needle to take my pain away, or make me fertile after years of abuse.' So when I speak about this subject, it mostly lands on deaf ears…overload is happening. However, with the several patients who bought the Blushield products, it's like witnessing a domino effect of better health. Pulses change for the better, complexion is improved and much more emotional stability. Less addiction tendencies, it's almost as if they have had successful therapy and realized the change." — R.M.D., Dipl. Acu. (Diploma of Acupuncture)

"It appears that the body is responding to the Blushield allowing the body to ignore more stressful environmental frequencies emitted from electrical devices, including mobile phones." — Dr William J Rea, Texas, USA, a former surgeon who determined that his allergic and neurological symptoms were caused by the EMF in the operating room. Rea established the Environmental Health Center in Dallas where his patients are tested through exposure to a spectrum of EMF.

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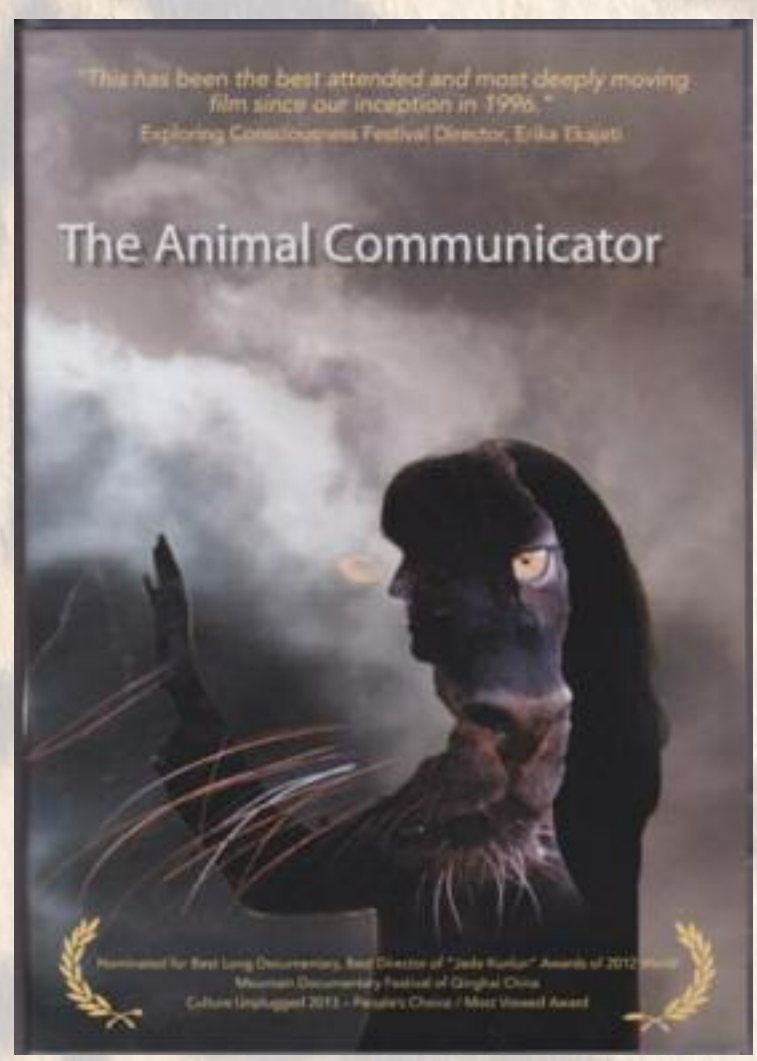

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Music of the Plants

Photo: Radion Kutsaev, unsplash.com

by Simone Vitale © February 2017

A device that translates electrical signals into sound opens up exciting paths of communication between plants and humans.

That Ringing in My Ears

Rome, September 2007 — I was taking part in an holistic wellbeing fair. While spending time at my stand and promoting sound healing and Tibetan singing bowls, I kept hearing this ringing, jingling sound in the background, not really giving it too much attention but still noticing its persistent presence.

During one of my walks around the place, I finally identified the source of that sound: the stand of the Damanhur Federation of Communities, a thriving spiritual eco-community located in the northwest of Italy. The young woman at the stand was explaining to a group of intrigued people that the music they could hear was coming from a device connected to the plant they could see before their eyes, and that the plant itself was actually "playing" the music.

Totally fascinated, I patiently waited for the group to move somewhere else and then started a conversation with her. She introduced me to the basic principles of the Music of the Plants. We ended up becoming friends, and a few months later we were performing together on stage at a festival called La Città Olistica (The Holistic City) in Rome: two women doing contact improvisation, the plant with the U1 device, and myself on piano.

That's how it all started for me.

During the rehearsal of the performance, I had my chance to overcome my scepticism about the idea that plants can create music intentionally. I had found the

Citizens of the Damanhur Federation of Communities, photographed in 2011. (Photo: Flickr.com)

concept and the technical process of transducing electrical signals from the plants into a MIDI (Musical Instrument Digital Interface) signal ingenious and clever. But it was difficult to assimilate that in the end the music was not just a random outcome of this electrical connection; rather, a sort of "awareness" of the plant was also involved. This is what the Damanhur researchers (the developers of the U1 device for the Music of the Plants) discovered in their 40 years of investigation: that after some time of being exposed to their own sounds, plants seem to become aware that the sound is coming from them and they start modulating it intentionally.

A Musical Instrument for Plants

The U1 device is based on a variation of the Wheatstone bridge, where one or more fixed resistances and a variable one are used to measure variations of impedance (electrical resistance). In the case of the U1, what is being measured is the electrical resistance in the living tissues of plants. These variations can then be translated into a variety of different signals, including MIDI for digital musical instruments such as synthesisers.

Fluctuations in the electrical potential of tissues can be measured in every living being. In animals and humans, these can also be related to different emotional states.

This example of a Wheatstone bridge is from the Leeds & Northrup Company, Philadelphia, c. late 1800s. (Photo: National Electronics Museum, Maryland, USA)

The Music of the Plants project aims at investigating, in an artistic way, the reactivity of plants to their environment and their ability to communicate and learn.

This research has not yet entered mainstream scientific investigation, so all the information available is offered by communities and individuals that, like myself, can see the meaning in terms of ethical, ecological and spiritual awareness. We can improve our relationship with our environment by understanding the presence of something we can call "consciousness" in plants.

In preparing for that first performance in Rome, I found myself spending hours playing piano together with a plant, and I was witnessing the slow development of the process. The subtle changes in the plant's music in response to the sound of the piano and its own sound were becoming more and more evident to me.

After the performance, I borrowed the U1 device from my friend to use for some time. At home I kept it connected to an *Anthurium andraeanum* for hours, listening to its music and how it changed during the day. This whole experience sparked an interest in me to understand a little more the mysterious world of plants' perception and inner life.

I have never been the kind of person who sees plants as unconscious beings (I believe that consciousness is present in everything: stones, water, soil, etc.). At the same time, I was not aware of how much knowledge is already available on the perception of and even communication with plants. I am talking here about scientific knowledge.

Of course, communication with plants has been part of the life of gifted people and shamans since the dawn of time, as well as a completely ordinary fact for plant lovers and people with a green thumb. These people know at an intuitive level that you should always talk and sing to plants and they will respond positively.

Do Plants Hear?

Plants have their own senses. Some of these can be compared to all five human senses. In addition to these, plants have some 15 other senses that are unique to the vegetal world, e.g., plants can "sense gravity and magnetic fields (which influence their growth), and can recognize and measure numerous chemical gradients in the air or in the ground".[1]

The idea that plants' way of playing music changes over time when they are exposed to the sounds they are making through the U1 device may make sense from a scientific point of view. In fact, it has been suggested that plants have their own way of perceiving sound vibrations.

Studies indicate the following findings:

"There is a strong relationship between sound waves and plant growth. Sound waves with specific frequencies and intensities have been shown to have significant effects on a variety of biological, biochemical, and physiological activities including gene expression in plants. However, sound waves with high frequency and intensity can be harmful to the proper growth and development of plants."[2]

"The contents of soluble sugar, protein, and the amylase activity in chrysanthemum increased significantly in response to sound waves with certain intensities (100 dB) and frequencies (1,000 Hz) which indicated that sound stimulation could enhance the metabolism of roots and the growth of *Chrysanthemum* (Yi, 2003b)."[3]

"The effects of music to improve crop yield and quality have been reported in tomato plants, barley and other vegetables (Hou and Mooneyham, 1999; Spillane, 1991; Xiao, 1990). Weinberger and Measures (1979) reported the effects of intensity in audible sound on the growth and development of Rideau winter wheat. The authors concluded that the vegetative growth response of winter wheat to audible sound was mainly dependent upon both frequency and intensity."[4]

Plants seem to react to vibrations coming from insects and other plants:

"The ability of plants to increase their defenses in response to micrometer-scale vibrations lends support to recent hypotheses that plants can detect and respond to low-amplitude vibrations produced by neighboring plants (Gagliano et al. 2012a, b, Gagliano and Renton 2013)."[5]

"A vibration signaling pathway would complement the known signaling pathways that rely on phloem-borne signals, airborne volatiles, or electrical signals (Wu and Baldwin 2009; Mousavi et al. 2013)."[6]

The roots of the plants seem to be sensitive to a broader range of frequencies than the parts above the ground. They also produce a "clicking" sound, most probably as a by-product of their growth. Putting together the facts that the roots of a plant both produce and perceive sound, we unveil a whole new scenario in our understanding of the communication network that exists underground. Sounds seem to be definitely within the range of plants' communication skills.

The roots of plants seem to be sensitive to a broader range of frequencies than the parts above the ground.

Can We Talk about "Plant Consciousness"?

If we consider "intelligence" as the ability to solve problems and learn from experience, then plants are definitely intelligent. But are they "conscious" in the way they respond to the environment?

From a scientific point of view, even the word "response" sounds heretical when applied to plants. In 1901, following the presentation of one of his works, the brilliant Indian scientist Sir Jagadis Chandra Bose (who produced an incredible amount of forward-thinking research and inventions) was put down by Sir John Burdon-Sanderson, the authority on electrophysiology at that time. The point was that Bose, a physicist, had used the words "Electrical Response in…" in the title. Burdon-Sanderson wanted him to change those words to "Certain Physical Reactions in…", simply because the word "Response" pertains to the domain of physiology rather than physics. For this reason, the Royal Society did not follow up on its intention to publish Bose's work.[7]

In 2005, more than a century later, the Society for Plant Neurobiology was founded following The First Symposium on Plant Neurobiology. This new field aims to "understand how plants perceive, recall and process experience, coordinating behavioural responses via integrated information networks that include molecular, chemical and electrical levels of signalling".[8] The Society's choice of the term "neurobiology" in relation

Plants form bonds with the people who take care of them.

to plants was so controversial as to cause strong reaction in the official scientific world—so much so that it changed its name to the Society of Plant Signaling and Behavior.

This is exactly the shortcoming of our modern knowledge: everything is separated into different fields, each one with its terminologies and each one with its dogmas. We are able to reach high peaks sometimes in one field or another, but we often miss what that means in the big picture. However, we are currently witnessing the re-awakening of that holistic thinking typical of the ancient wisdom. The separate paths of science and spirituality are now joining again, a reconciliation that will bring about a much-needed leap in our thinking process.

As Paco Calvo, Professor of the Philosophy of Science at the University of Murcia, Spain, states in "The Philosophy of Plant Neurobiology: A Manifesto":

"Plant neurobiology has taught us that plants have an internal system for organizing sets of behaviors that is functionally similar to the animal nervous system. We can, therefore, approach plant behavior and neurobiology from the point of view of ecological psychology, and analyze the plant-environment system as a whole whose behavior emerges and self-organizes at a particular scale of interaction, the one mandated by ecology. (This may be one reason why plant intelligence has been neglected for so long, but time-lapse photography has evidenced the contrary.) Consistent with this approach, plants may well perceive opportunities for behavioral interaction in the form of affordances."[9]

The classic book *The Secret Life of Plants* is a good source of information on unusual and fascinating experiments and research on the consciousness of plants.[10] In a time frame spanning from the mid-1950s to the late 1970s, there was a booming interest in the understanding of plant consciousness. Unfortunately, our scientific investigation modality shows all its primitiveness when the only thing that people can come up with is to threaten or hurt living beings to observe their reactions.

In the mid-1960s, polygraph examiner Cleve Backster first observed the astounding reactions of different plants when subjected to threatening intentions and behaviours. The plants would "pass out", showing no sign of the electrical activity that was being detected by instruments made of a galvanometer used in conjunction with a Wheatstone bridge and very similar to the polygraph used in lie detection. Using this system, Backster was able to observe behaviour in plants, such as detecting the intentions of people in the room, reacting to threatening intentions or behaviour and even reacting with shock when another life form was hurt in their vicinity. Luckily, not all his experiments involved violence. He also researched how plants are connected to their carers at a distance. Plants seem to create a sort of bond with the persons who take care of them, a connection that goes beyond physical distance, as some of Backster's experiments seem to prove.

From the mid-1950s, research chemist Marcel Vogel experimented more in the direction of psychic energy. He was able to observe how plants react to the projection of negative and positive thoughts towards them.

Electronics specialist Pierre Paul Sauvin conducted an even more peculiar experiment. He used a toy train to create a mechanism that would give him a considerable electric shock at the end of the train's course. He then connected a plant to a switch by which the train direction could be reversed. After receiving a first shock, Sauvin ran the train again, this time anticipating the pain of the electric shock. He reported that the plant was able to detect his anxiety and reacted by switching the direction of the train.

In Japan, Dr Ken Hashimoto, an expert in lie detection, was a pioneer in transducing these electrical signals that the polygraph can read from a plant into sounds. He and his wife reportedly created a connection with some of

Not only do plants learn, memorise and communicate, they also make decisions and solve complex problems.

their plants, in particular a cactus that they were able to teach to count numbers. I believe that this last instance has more to do with a deep connection between the minds of the Hashimotos and the plant, rather than with an awareness of numbers by the plant.

Whatever this all means in terms of scientific research, it is obvious that plants are highly intelligent beings. Having no brain, in the animal sense, they work on a modular basis, being able to lose about 90 per cent of their bodies and still survive. They have been able to transform the surface of the Earth, making it suitable to host millions of other life forms (including us humans) through a process that, although perfectly explainable on a dry scientific level, actually is closer to magic and miracle than anything else I can think of. They make more than 90 per cent of the biomass of the planet, a fact that should earn them the title of "dominating species" on the Earth (which, in fact, they are).

Plants have senses that resemble those of animals. In fact, plants can "see", "feel", "smell" and "taste" and, as we have seen, it is not outrageous to think that they can "hear" as well. Plants even present what in psychology is called "procedural memory", the kind of memory that allows us to perform automatic actions without thinking about all the single operations involved in the process. As of yet, there is no practical evidence of "semantic" and "episodic" memory in plants, but it is not possible to say what future research may discover.

When attacked by an insect, they are able to summon the enemy of that insect as a reinforcement.

As Professor Calvo writes:

"The list of plant competencies has been growing at a considerable pace in recent years. Plants can, not only learn and memorize, but also make decisions and solve complex problems. They can sample and integrate in real time many different biotic and abiotic parameters, such as humidity, light, gravity, temperature, nutrient patches and microorganisms in the soil, and many more, courtesy of a highly sophisticated sensorimotor system (Hodge, 2009; Trewavas, 2009; Baluška and Mancuso, 2013) that includes proprioception (Bastien et al., 2013; Dumais, 2013), with sensory information being transduced via a number of modalities. Furthermore, plants can anticipate competition for resources, growing differentially depending upon the future acquisition of minerals and water (Novoplansky, 2015). Plants also exhibit self-recognition and territoriality (Schenk et al., 1999), being able to tell apart own from alien, directing their movements towards their targets of interest (Gruntman & Novoplansky, 2004). Plants can communicate aerially (via released volatile organic

Chemical signals released by plants under attack by predators warn other plants to be alert to danger.

compounds—VOCs—Dicke et al., 2003; Baldwin et al., 2006) with members of their own kind and with members of other species. They can even communicate bioacoustically, making and perceiving 'clicking' noises (Gagliano et al., 2012). Some plants can tell vibrations caused by predators apart from innocuous ones (wind or the chirps of insects), eliciting chemical defenses selectively (Appel and Cocroft, 2014). In a sense, plants can *see*, *smell*, *hear*, and *feel* (Chamovitz, 2012)."[11]

One of the most obvious differences between the behaviour of plants and that of animals and insects is the time scale. The plant world moves at a much slower pace. Since the invention of time-lapse cameras, we have been able to observe plant life at a more comprehensible speed for us. This has allowed us to realise that they act pretty much like animals in their search for food. Their roots roam the under soil quickly and largely until they find nutrients, to then stop there for some time, as animals do.

Interspecies Communication

It is a matter of fact that plants communicate with their environment. Plants such as tobacco, corn, tomato and lima bean (to name just a few) can communicate with other species as well. When attacked by an insect, they are able to summon the enemy of that insect as a reinforcement. Plants are able to understand when contact with another organism needs to be met with defence and counterattack or when it represents an opportunity for symbiosis.

They are able to understand when contact with another organism needs to be met with defence and counterattack or when it represents an opportunity for symbiosis. For instance, a tree that is attacked by

caterpillars releases airborne chemicals that can be detected by neighbouring trees which will then start producing chemicals toxic to the caterpillars.

The presence of neurotransmitters such as serotonin, dopamine and glutamate has been observed in plants, although their function is not yet clear. Lactose and myosin, molecules that allow animal muscle cells to move, have been found in an area close to the tip of the roots, which is considered the "brain" of plants. The roots also show a high level of electrical activity. According to Stefano Mancuso and Alessandra Viola in *Brilliant Green: The Surprising History and Science of Plant Intelligence*:

"Darwin was the first to notice that the root tip is a sophisticated sense organ capable of registering and reacting to different parameters… Thus, Darwin formulated what a century later would become known as the 'root–brain hypothesis'…"[12]

"Darwin wrote and affirmed several times that he considered plants to be the most extraordinary living things he had ever encountered…"[13]

The Music of the Plants provides a fascinating new field of exploration and research around the topic of plant consciousness. On the one hand, hearing sounds produced by a plant offers a direct feedback of the state of the plant in its environment, something that anyone who has a beloved plant can enjoy. On the other hand, it allows musicians and music lovers to deepen their ability to listen. When one engages in a musical dialogue with a plant, one enters a different level of awareness—or, I should say, "one should enter" for the dialogue even to take place.

I have improvised music countless times in my life, alone and with other musicians. I am far too used to the human response to a call or to respond in a human way to a call. But when I sit close to a plant with one of my instruments, my experience in this regard is not really useful. With a plant, I need to allow myself to slow down, first of all in my mind, and sink deeper, tuning to a different time scale.

Simone Vitale, playing the anantar (koto-tampura), makes music with a *Crassula ovata* (jade) plant connected to his U1 device.

When I am sitting there, I need to open a different space to allow myself to perceive the interaction. And when the signal comes, it often comes in a different way than I expected. If I am not fully present and attentive, I will miss it. I will miss the opportunity to learn more about communication, more about life. And when I *do* catch that moment, then I feel very grateful for everything I can learn in that glimpse of deeper connection.

As journalist–activist Professor Michael Pollan puts it in the foreword of Mancuso and Viola's *Brilliant Green*:

"Most people who bother to think about plants at all tend to regard them as the mute, immobile furniture of our world—useful enough, and generally attractive, but obviously second-class citizens in the republic of life on Earth. It takes a leap of imagination over the high fence of our self-regard to recognize not only our utter dependence on plants, but also the fact that they are considerably less passive than they appear, and in fact are wily protagonists in the drama of their own lives—and ours."[14] ∞

An *Ocimum tenuiflorum* (tulsi) plant is hooked up during one of Simone Vitale's recording sessions.

About the Author:

Simone Vitale is a visionary musician, composer and sound healer. His work is dedicated to promoting an ecology of sound and music where kindness and mindfulness are the keys to a deeper connection with ourselves and each other.

In his project The Sound of Golden Light, Vitale is following the call for a more ethical approach to Art. His deep understanding of the effects of sound and music on the body, mind and soul is offered for the higher

Continued on page 80

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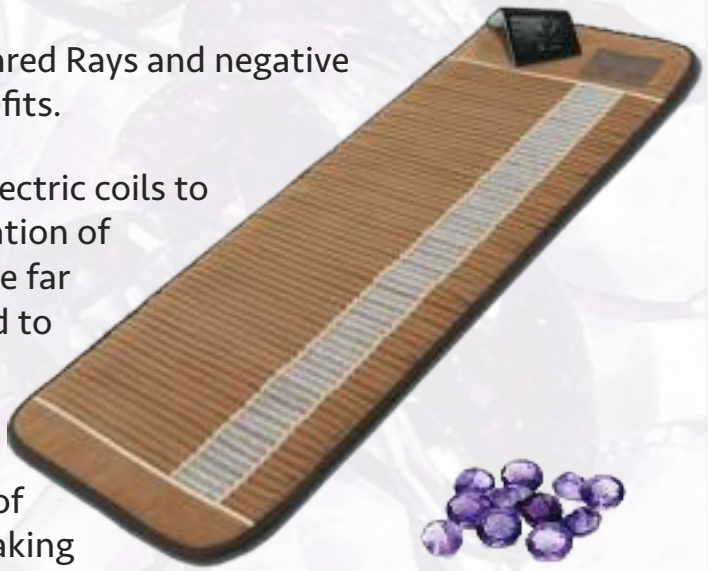

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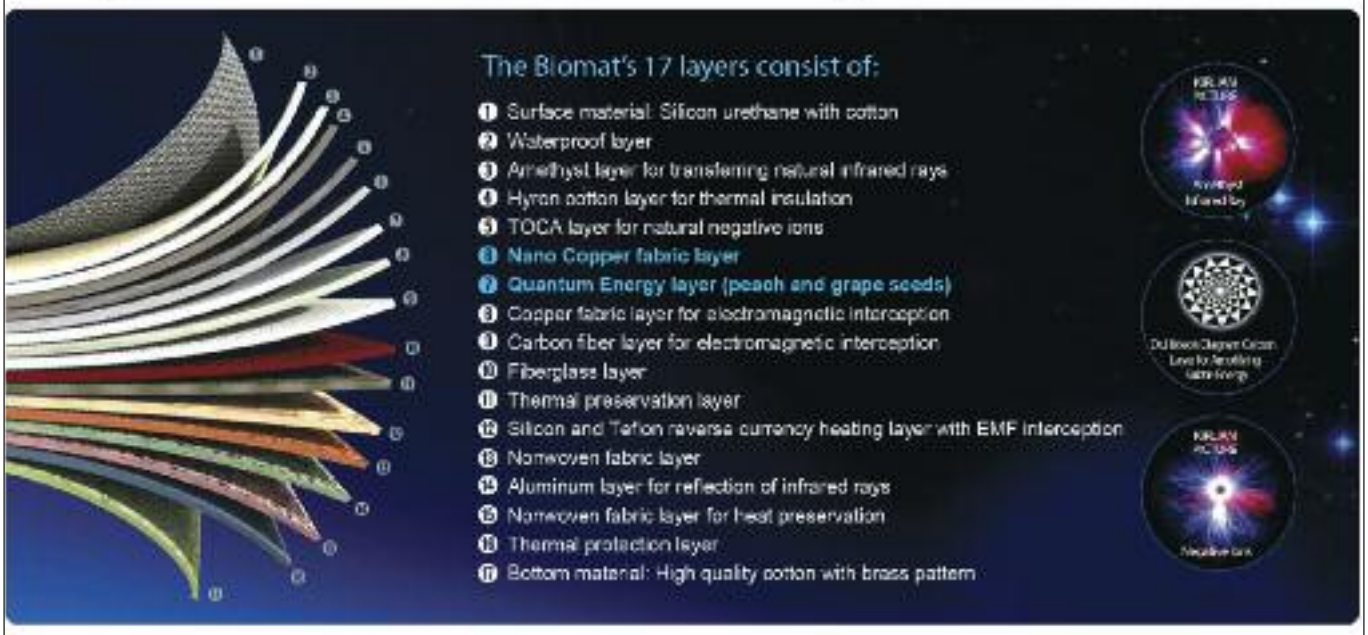
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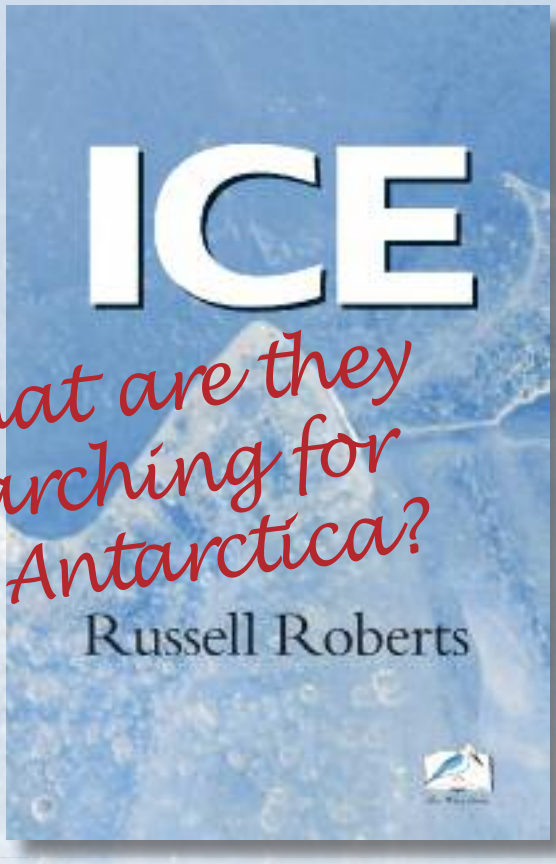


Vaccines, Biowarfare and Betrayal

Photo: Amanda Mills, USCDCP, pixnio.com

by Catherine O'Driscoll © February 2017

Government agencies invest in vaccines and profit from them. So is it ethical for governments to regulate their own products?

During the 1980s and 1990s, I was the loving owner of five beautiful Golden Retrievers. But then everything went wrong. Oliver died suddenly at the age of four; Prudence died of leukaemia at six; Chappie had thyroid disease; Sophie had crippling arthritis; and Samson had autoimmune disease followed by cancer and death at five years. Suffering and grief were the prevailing energies—and I naturally asked why.

I discovered that annual vaccination (or even one vaccination) is capable of triggering all of the sicknesses that my dogs experienced. I learned that veterinarians, the veterinary vaccine industry, academics, politicians and even governments have been selling us out for decades. In fact, it seems perfectly legal and acceptable for a corporation or vet to kill your pets, as long as the product that killed them has been approved by the regulator and given according to instructions.

But it doesn't stop there. You and your children are at risk for the very same reasons.

Lobbying Against Overvaccination of Pets

In the 1970s, pathobiologist Dr Ronald D. Schultz at the University of Wisconsin's School of Veterinary Medicine went into the laboratory and established a scientific truth: once a dog is immune to viral disease, he is immune for years and probably for life.[1] Dogs don't need "boosters" every year or three years. But this hasn't stopped vets from promoting annual or three-yearly shots. How on

A rabies vaccine is given to a dog at Langley Air Force Base, Virginia, USA. Rabies vaccinations are required for all domestic animals residing on US military installations.

earth can you trust, or even respect, a profession or an industry that openly promotes a veterinary procedure which isn't needed but is potentially very harmful, or a government that does nothing to stop this?

Since the living nightmare we went through in the early 1990s, I've been running a not-for-profit organisation called Canine Health Concern (CHC) to share vaccine science with my fellow dog-lovers, with the aim of bringing barbarous overvaccination practices to an end. I had no idea how large this task would prove to be.

CHC has lobbied the British regulator—the Veterinary Medicines Directorate (VMD)—to have one-year vaccines taken off the market, since they're redundant yet facilitate overvaccination. Hundreds of our members have written to their elected representatives on several occasions, all to no avail. I have always wondered why the VMD should be so hostile to me and my organisation when we ask it to stop the unnecessary annual vaccination of pets. The VMD has consistently treated us as the enemy since we began writing to it in the early 1990s. I still have the correspondence to prove it!

The VMD is allegedly charged with "assuring the safety, quality and efficacy of veterinary medicines".[2] When we wrote to it in 2010 to call for the withdrawal of one-year vaccines for the core diseases of parvovirus, distemper and hepatitis, the VMD bizarrely sent us a lengthy document extolling the virtues of the smallpox vaccine but didn't answer our question about the withdrawal of unnecessary booster shots for pets. After several months of correspondence and copious insults later, we finally had our answer (and I paraphrase): "No. Sod off."

While researching my new book, *The Tip of the Needle*, I was able to understand why the VMD would not act to protect our pets—and I ended up as depressed as hell.

Why Won't the Regulator Act on Our Behalf?

The regulator is, in fact, the brainchild of the industry it purports to regulate. The VMD was established in February 1989 following the February 1988 publication of *Review of Animal Medicines Licensing*[3] by Mr P. W. Cunliffe, CBE, a former Chairman of ICI Pharmaceuticals. The fox got to write the rules in the hen house!

Looking through government documents such as the 2010 Hampton Report relating to the VMD, you will find that, rather than protecting us and our pets, the VMD is expected to be "keen to minimise the burden of… regulation on the industry" and "should publish an innovation policy outlining how it is using new forms of technology to help veterinary medicine manufacturers bring new products to market".[4] The VMD's brochures, reports and other documents make it clear that corporations are to be helped and pleased, and that drugs and biologics are to be fast-tracked to market—if you have lots of money to hand over to the regulator. So much for our pets.

Indeed, the VMD is funded by the very industry it's supposed to regulate. It does so by approving veterinary medicines in competition with other European regulators; so if the UK won't approve them, another EU regulator can pocket the approval fee. This probably explains why the Lepto4 vaccine is known to kill dogs (120 deaths admitted to, plus over 2,000 serious adverse reactions) yet is still on the market, apparently unchanged.[5] But the regulator is doing nothing about this for now.

Viruses and Vaccines as Biological Weapons

When you think of vaccines, you also need to think of biological warfare. Both industries are ostensibly the same. Our governments are also involved in, and profit from, the vaccine industry. Vaccines appear to me to be an international racket with biowarfare a key agenda.

According to World Health Organization (WHO) *Chronicle* articles that Len Horowitz, DMD, unearthed for *Emerging Viruses*, "WHO has exerted a powerful influence on the quality control of biological substances since its very inception in 1948".[6] At the end of World War II, the WHO was backed by powerful people such as Henry Kissinger and successive governments that were looking for ways to wage war other than through the use of the atomic bomb. The money was going into viruses.

In his book *Cutting Edge: A History of Fort Detrick, Maryland, 1943–1993*[7], Norman M. Covert explains the early days of courtship between governments and industry. The aptly named Covert, Chief of Public Affairs at Fort Detrick, states (p. 17): "From the moment of its birth in the highest levels of government, the fledgling biological warfare effort was kept to an inner circle of knowledgeable persons. George W. Merck was a key member of the panel advising President Franklin D. Roosevelt and was charged with putting such an effort together. Merck owned the pharmaceutical firm that still bears his name."

Government agencies, including the US National Institutes of Health (NIH), the National Cancer Institute (NCI), the Centers for Disease Control and Prevention

(CDC), the Department of Defense, the US Public Health Service as well as the Pasteur Institute and the International Agency for Research on Cancer in France, Porton Down in England, the Ivanovsky Institute in Russia, and others—scientists around the world in government departments and pharmaceutical companies—were (and still are) messing about with viruses in labs, splicing together different viruses from different species and creating superviruses under the guise of preventive health care while also delivering powerful biological weapons—and sharing them with one another!

By the late 1960s, the WHO's and the NCI's virus and cancer reference centres in Denmark and Switzerland served as authorised technical advisers for and suppliers of "prototype virus strains, diagnostic and reference reagents, antigens, and cell cultures" to 592 virus labs. Over 2,514 virus strains were distributed.[8]

So any protestation that our governments want to protect humanity from infectious disease is somewhat disingenuous...

I questioned the collaboration between government and the biowarfare industry when a 2007 foot-and-mouth-disease outbreak in the UK was traced to a shared government–industry research facility called The Pirbright Institute. The virus was used by three parties at Pirbright: the government-funded Institute for Animal Health, Merial Animal Health Ltd and Stabilitech Ltd.[9] My naïve question back then was: why would our government want to share a facility with the vaccine industry?

I also asked the "why" question during the previous UK foot-and-mouth outbreak in 2001. In a Trevor McDonald TV documentary it was asserted that the government department Defra was telephoning wood yards to ask about burning materials two weeks ahead of the announcement of any foot-and-mouth epidemic. In fact, a CHC member who ran a wood yard had already telephoned me to tell me the same thing. Why did Defra wait two weeks while this highly infectious disease took hold? The conspiracy theory was that the outbreak had started at the government's Porton Down biological warfare facility and that the government was trying to cover up the leak.[10]

The official advice was to stack the dead bodies of cattle and sheep out in the open air—even though foot-and-mouth is an airborne disease and stacking bodies in the open would likely spread it.[11] My own vet even suggested that something fishy was going on.

Governments and bioscientists like to make claims that biological warfare initiatives are concerned with defence, but to me this scenario looks more akin to a lucrative armaments industry. In 1994, for example, a US Senate report documented the transfer of biological weapon ingredients to Iraq: botulism developed in Maryland, licensed by the Department of Commerce and approved by the Department of State. Anthrax was also supplied to Saddam's Iraq by Porton Down. So any protestation that our governments want to protect humanity from infectious disease is somewhat disingenuous: they were selling biological agents to allegedly despotic regimes with seemingly little conscience. During the 1980–90 Iran–Iraq War, America and Britain even sold armaments to both sides.[12]

In fact, much medical research is funded by grants from government bodies such as the UK Medical Research Council (MRC) and the US NIH. When the basic research looks promising, the compound is sold, often to a biotechnology firm. For example, the MRC holds patent no. WO 1986004242 A1 for "Improvements relating to influenza vaccine".[13] In September 2014, Natural News reported that the CDC was awarded Ebola virus patent no. CA 2741523 A1 in 2010, and that the NIH owns patents on Ebola vaccines.[14] The Ebola virus was deposited with the CDC in 2007.[15] I presume that these government agencies can demand royalties on Ebola vaccines. Isn't this corruption, seeing that these agencies exist for the good of the people? How can they ethically be regulators of their own assets from which they profit?

Vaccine safety proponent Robert F. Kennedy, Jr, notes: "CDC is not an independent agency. It is a vaccine company. CDC owns over twenty vaccine patents. It sells about $4.6 billion of vaccines every year."[16]

Biological warfare, eugenics and the transfer of money from the poor to the rich under the guise of "health care" were beginning to look like issues that tied together governments, the pharmaceutical industry and the military, threatening our lives as well as those of our children and our pets. And it's all done under the cover of darkness and misinformation.

Ascending from Fylingthorpe, North Yorkshire, during the 2001 foot-and-mouth-disease outbreak. (Photo: Ben Gamble)

Population Control and Unsafe Vaccines

While researching *Tip of the Needle*, I couldn't help stumbling upon considerable evidence to indicate at least that they're trying to kill us off! (If they don't want us to be conspiracy theorists, they should stop appearing to conspire against us.)

Back on 29 July 1969, for example, the US House Republican Research Committee Task Force on Earth Resources and Population, chaired by George H. W. Bush, cited the urgent need for population control to fend off a growing Third World crisis.[17] Included in the briefing was information from the evangelical group which the famous vaccinating philanthropist Bill Gates had been trained to revere: Planned Parenthood, which has roots in the eugenics movement. Its founder, Margaret Sanger, advocated "negative eugenics", which aims to improve human hereditary traits through social intervention by reducing the reproductive capabilities of those considered unfit.[18]

Bill Gates has a history in this area. In a PBS interview with American journalist Bill Moyers[19], he admitted that his family's involvement in reproductive issues throughout the years has been extensive, referencing his prior adherence to the beliefs of eugenicist Thomas Robert Malthus, who asserted that populations need to be controlled through reproductive restrictions.

A 1974 US government document, "National Security Study Memorandum NSSM 200" (dubbed "The Kissinger Report")[20], states (p. 14): "...There is an alternative view which holds that a growing number of experts believe that the population situation is already more serious and less amenable to solution through voluntary measures than is generally accepted. It holds that, to prevent even more widespread food shortage and other demographic catastrophes than are generally anticipated, even stronger measures are required and some fundamental, very difficult moral issues need to be addressed. These include…our own consumption patterns, mandatory programs, tight control of our food resources…

"…Implementing the actions discussed above…will require a significant expansion in AID funds for population/family planning. A number of major actions in the area of *creating conditions for fertility decline* can be funded from resources available to the sectors in question (e.g., education, agriculture). Other actions, including family planning services, research and *experimental activities on factors effecting* [*sic*] *fertility*, come under population funds…" (Emphasis added.)

Researchers met with resistance from community members who were hesitant to encourage mothers to receive vaccinations during the maternal and neonatal tetanus campaign in Kenya in September 2013. (Photo: CDC Global, flickr.com)

In 1978, the US Department of State issued a three-part bulletin, "World Population: The Silent Explosion".[21] It came with a conflicted message: on the one hand, talking about giving more food aid and vaccines to developing countries; on the other hand, implying that if the starving masses died there'd be less of a problem.

The World Bank also got in on the act. In her 1987 book *Reproductive Rights and Wrongs*, Betsy Hartmann notes that the World Bank's key device for administering population policy is "leverage over other forms of development finance". This means that wealthier nations lend money to poorer nations in the knowledge that loans cannot be repaid. She also notes that governments often burdened by massive foreign debt are persuaded to "devalue their currency, privatize their industries, open their doors to foreign investment, freeze wages, raise food prices, slash social services and implement Bank-sanctioned population programs".[22] In other words, the US-sponsored World Bank appears to be bankrupting foreign governments in order to advance the American Corporate Empire and its agenda: seemingly a plan to reduce populations.

The vaccine industry has arguably been involved in negative eugenics, having been caught lacing vaccines with chemicals that cause sterility in women, as happened in the Philippines, Nicaragua and Mexico. In March 2014, the Catholic Church in Kenya questioned whether a tetanus vaccination campaign targeting women aged 14 to 49 was aimed at sterilising these women.[23]

The human papilloma virus (HPV) vaccine Gardasil®[24], sublicensed to Merck, is believed to cause adverse side effects including seizures, blood clots, paralysis and even death in some young women. It is also thought to induce premature ovarian failure—sterility—in some cases.[25, 26]

The 2014–16 Ebola outbreak had me asking more questions. Since the first confirmed case recorded on 23 March 2014, over 11,000 people in six countries are confirmed to have died. The film *Outbreak: The Truth About Ebola*, broadcast on BBC Two in June 2015, revealed that the WHO dragged its feet for 10 months after the outbreak had started. It did nothing, leaving Médecins Sans Frontières workers to deal with the spread

of Ebola and with woefully inadequate resources. This makes me wonder if the WHO was keen to play with other people's lives, giving it time so that vaccines could be advanced. Was it conspiracy or cock-up?

The NIH has been trialling Ebola vaccines for some time. A 2003–04 study, published in 2006, showed its vaccine to be less than safe. Two subjects experienced "serious adverse events"; over 90 per cent had local injection site reactions; and recorded systemic symptoms included malaise, muscle pain, nausea and fever.[27]

Despite these concerns, on 5 September 2014 more than 200 "technical experts" convened by the WHO recommended bypassing the usual regulatory pathways for Ebola vaccines and therapies. At this meeting, Gary Nabel, MD, PhD, head of the US National Institute of Allergy and Infectious Diseases' Vaccine Research Center (part of the NIH) before he left to join drug firm Sanofi, said that manufacturers should massively scale up Ebola vaccine production before trial results were available. "If it were me personally, I'd err on the side of caution, and I'd think carefully about stockpiling doses. If it isn't safe, you throw away those lots. In the worst case you've wasted some money," he said.[28] I find it astonishing that an MD, a former US government official who contributed to the above study and is now an industry man, should think that you only waste *money* if a vaccine isn't safe. After all, these "experts" were talking about bypassing safety trials. There seems to be no consideration of the lives that an unsafe vaccine might destroy.

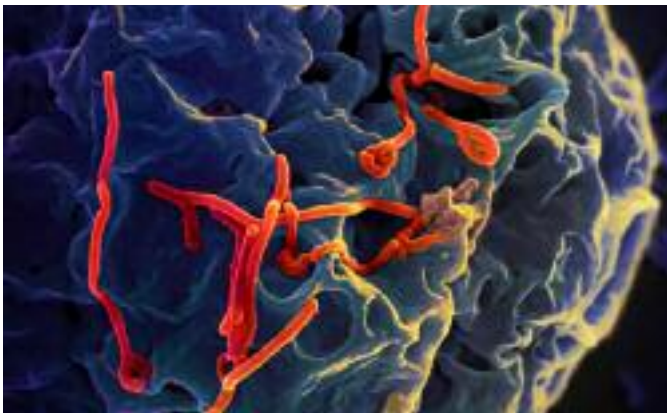
I've spent the last 25 years asking my government to properly regulate the veterinary vaccine industry—but now it looks like governments are part of both the animal and human vaccine industries.[29]

Oligarchs and Vested Interests

Billionaire Bill Gates is keen to save the world with vaccines. Not only does he attract contributions from the super-rich for the Bill & Melinda Gates Foundation, he has also purchased large shareholdings in vaccine and biotech companies. He is therefore profiting from his philanthropy. His Foundation invests in companies and products, such as genetically modified organisms, which harm the people that it purports to help.[30, 31]

Ahead of the prestigious Dimbleby Lecture by Bill Gates on 29 January 2013[32], the BBC acknowledged serious concerns about the safety and usefulness of the Foundation's polio vaccination campaign. In his article "Bill Gates: The world can defeat polio"[33], the BBC's medical correspondent Fergus Walsh refers to a study by Indian paediatrician Jacob Puliyel, MD, *et al.* in the *Indian Journal of Medical Ethics*[34]: "The polio eradication programme epitomises nearly everything that is wrong with donor funded 'disease specific' vertical projects, at the cost of investments in community-oriented primary health care (horizontal programmes)…"

In fact, the Gates Foundation's polio eradication program in India was the precursor to a massive increase in non-polio acute flaccid paralysis (NPAFP), a related disease that's more deadly than polio itself. Polio, by the way, is spread through contaminated water.[35] Billions are spent on profitable new drugs and vaccines, when the same amount spent on clean water and sanitation would have a far greater impact in terms of benefit to health.



Scanning electron micrograph of Ebola virus budding from the surface of a Vero cell (African green monkey epithelial cell line). (Photo: US NIAID)

In a new development in early February 2017, India's National Technical Advisory Group on Immunisation announced it has cut off all financial ties with the Gates Foundation due in part to "conflict of interest issues" relating to its links with pharmaceutical companies.[36]

Then there are the Murdochs, who also have vaccine ties. GlaxoSmithKline (GSK), manufacturer of the MMR (measles–mumps–rubella) vaccine, appointed James Murdoch to its board-level Corporate Responsibility Committee as at May 2009 to help review "external issues that might have the potential for serious impact upon the group's business and reputation".[37] The Murdoch press, especially via *Sunday Times* journalist Brian Deer[38], had been on a mission since 2003 to disparage gastroenterologist Andrew Wakefield, MBBS, who noted a correlation, asserted by parents, of an MMR vaccine–autism link. In May 2010, Dr Wakefield was struck off the UK medical register. In January 2012, James Murdoch retired from the GSK board[39], his brief presumably fulfilled.

People think that Wakefield was discredited, whereas the evidence indicates that he was stitched up to protect vaccine industry profits. His book, *Callous Disregard*, outlines government and vested-interest involvement. According to Wakefield, Professor Sir David Hull contacted the Dean of the Royal Free Hospital School of Medicine to "bring to bear whatever pressure he could" to stop Wakefield from acting as an expert witness on behalf of MMR vaccine–damaged children.[40] Reports on the Age of Autism website talk about scientists being frightened to defend their colleague, or even to be associated with him, for fear of government reprisals.[41]

All of this makes me question whether oligarchs have

Bill and Melinda Gates, photographed in June 2009 during their visit to Oslo, Norway. (Photo: Kjetil Ree)

the right to promote unsafe vaccines just because they're richer than we are, and whether voting for a government based on a small number of platforms (health, crime, education) resembles anything like democracy.

UK Vaccination Committee Cover-ups

Professor Sir David Hull, who allegedly tried to silence Wakefield, is the same professor who headed the UK's Joint Committee on Vaccination and Immunisation (JCVI). According to findings from Freedom of Information Act requests lodged by biochemist Dr Lucija Tomljenovic of the University of British Columbia and published by the British Society for Ecological Medicine in March 2011[42], the JCVI has been lying about vaccine adverse effects for decades. Documents show that the JCVI withheld and/or distorted critical data on many severe adverse reactions from childhood vaccines, including anaphylaxis, brain damage, convulsions and fits, cot deaths, encephalitis, meningitis, cessation of development, and death.

Dr Tomljenovic asserts that the JCVI and Department of Health may have violated international guidelines for medical ethics, including the Declaration of Helsinki, and their own codes of practice. Transcripts of JCVI meetings show that some Committee members had "extensive ties to pharmaceutical companies and that the JCVI frequently co-operated with vaccine manufacturers on strategies aimed at boosting vaccine uptake". Rather than reacting appropriately when safety concerns over specific vaccines arose, the JCVI did nothing or skewed or removed data and made intensive efforts to reassure the public and authorities on vaccine safety. In addition, the Committee "[p]ersistently relied on methodologically dubious studies, while dismissing independent research, to promote vaccine policies" and "[a]ctively discouraged research on vaccine safety issues".

By the mid- to late 1980s, Dr Tomljenovic notes, "the JCVI had become increasingly concerned about publicly associating the terms 'death' and/or 'brain damage' with the word 'vaccine' because of the negative repercussions they perceived this would have on vaccination policy". These concerns were "exacerbated by the increasing burden of litigations about pertussis vaccine–suspected injuries…and the possibility that vaccination could be linked to…SIDS [sudden infant death syndrome]".

The Sellout by Academia

I have become used to dealing with scientists who either speak out despite jeopardising their careers or are afraid to speak out (the latter being by far the larger category). This ostensibly means that science is no longer concerned with the open pursuit of truth. It has been hijacked by the profit motive. I have also run into brick walls and even open assault when dealing with scientists who choose to collaborate with corporations and benefit from their funding.

What we have in fact are academic institutions, which are intimately involved with our health and that of our pets, in bed with governments and pharmaceutical companies. Academics who might have been counted on to protect us against fraudulent claims and dangerous drug side-effects routinely let us down. What's more, our taxes are spent on delivering drugs and vaccines that can cause harm and which might barely be needed.

When I was working in public relations back in the 1980s and 1990s, I had a number of academic institutions as clients and was told that government policy dictated the need to boost government funding with grants from industry. This is a really bad idea which signals the end of scientific integrity. It means that academics have difficulty speaking out when doing so jeopardises their colleges' financial survival and their own careers. Indeed, considerable circumstantial evidence suggests that bioscientists who speak out have a high risk of untimely and suspicious death. On the other hand, scientists who are happy to consort with the pharma industry prosper. When I say "consort with the pharma industry", I mean that too many scientists hide or minimise unfavourable research results, are reluctant to speak the truth for fear of reprisals, and display a cavalier bias towards the promotion (for a fee) of drugs and vaccines. So much for the open pursuit of truth.

Do *We* Matter At All?

In 2006, the journal *Clinical and Vaccine Immunology* published a mini-review[43] of vaccine development issues presented during GTCbio's Third Annual Conference on Vaccines in 2005—and it takes us right to the core of the problem. According to the review, titled "Vaccines: All Things Considered", "the meeting provided an excellent overview of the concepts and concerns for vaccine developers and the vaccine industry and was relevant to individuals in academia, industry, regulatory agencies, implementation, military, government, and physicians". And us, of course.

I would say the concerns are relevant to us, especially

since the authors state that there are "significant roadblocks" to developing and licensing new vaccines because of "the difficulty in preparing a 100% safe and effective product, the high cost of testing, and the almost unavoidable consequence of the occasional, no matter how infrequent and minor, adverse event". We are the ones suffering those pesky roadblocks with our lives—if we open our arms to their needles, that is.

The report goes on to say: "…In addition, vaccines are administered to healthy individuals, and any side effects, even if unrelated to the vaccine, make the manufacturer a target for lawsuits… Although vaccine development is motivated by its benefit to mankind, the primary drive remains profit, since vaccines are usually made by pharmaceutical companies."

The 2006 mini-review continues: "Redefinition of vaccine development as a deterrent to biowarfare with the establishment of Project Bioshield has enticed the military defense industry to get involved in vaccines. For example, Lockheed, an aerospace, military defense company, bought Dyneport [*sic*], a vaccine company. The extensive experience in lobbying Congress for funding by the military defense complex may change the nature of future vaccine development."

It's worth noting that in 2014, an online petition via SumOfUs.org sought to stop Lockheed Martin from taking over huge chunks of the UK National Health Service (NHS). The petition organisers warned: "If successful, the world's biggest weapons manufacturer could be in your GP's office, handling your records and scheduling your appointments… The NHS has been delivering these services to GPs for decades, but the NHS has been banned from meetings about its own future and isn't even allowed to bid… If this were really about saving the government money, bidding would be open to organisations that have already proven they can do the job. What's really happening is another step in selling off the NHS to the highest bidder."[44]

You'll be relieved to know that Lockheed withdrew from the bidding process. But I think the SumOfUs organisers missed a point: Lockheed Martin is in the bio-industry now. The privatisation of the NHS is also potentially putting the corporations that make vaccines and drugs in a position to award themselves contracts for those vaccines and drugs which may or may not work, or which contain weaponised biological agents for deployment in an overpopulated world. Why was the UK government stopping others from bidding, and why did it appear to be handing over more money than was necessary?

It's also worth noting that the USA is currently enacting laws to force people to be vaccinated against their wishes.[45] Consider the implications of this in the light of bio-organisations involving themselves in "health care".

The authors of the "Vaccines: All Things Considered" mini-review add: "Recently, government funding of vaccine development has been driven by fear: fear of bioterrorism, fear of being blamed for inaction, and concern over lost revenue due to absence due to illness."

It has nothing to do with caring about humanity, then?

The vaccine program is not driven by a desire to ensure that people are living disease-free and happy lives. As the review notes: "…Fear of the threat of bioterrorism elevates infectious diseases to the status of a military weapon and changes the definition of a vaccine program into a military deterrent."

Vaccines are about warfare. That's the long and the short of it. Our regulators are not independent regulators at all. They walk like regulators, talk like regulators, even look like regulators—but they're not. Governments themselves are involved in the study and use of viruses and bacteria for warfare, with agencies such as the MRC and the NIH developing vaccines and handing them over to the pharmaceutical industry for profit.

What we are seeing is an indifference to the physical wellbeing of the majority of the population—including the animals in our care. We are being betrayed by bodies and individuals who put their ideologies above truth, their careers above human decency, and research grants and profits above life. Why else would they lie to us? ∞

About the Author:
Catherine O'Driscoll is the author of *What Vets Don't Tell You About Vaccines* (1998; originally *Who Killed the Darling Buds of May?*, 1997, reviewed in NEXUS 4/04) and *Shock to the System* (2005). Based in Scotland, she has lectured on canine health around the world and her work has been featured in the TV documentary series *World in Action*. Her article "Pet Vaccination: An Institutionalised Crime" was published in NEXUS 12/06. O'Driscoll is hoping that a mainstream publisher will take on her book *Tip of the Needle*, as she believes that we should all have the information it contains to protect ourselves and our loved ones from iatrogenic disease.

For more information and to contact the author, visit her websites http://www.canine-health-concern.org.uk and http://www.petwelfarealliance.org.

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Science News

A SIMPLE EXPERIMENT PROVES *PI* = 4

by Miles Mathis © 2016–17

I have written a series of papers explaining why *pi* = 4 whenever you have motion, but here I boil it down to the basics for those who don't know much mathematics or don't want to get into it.

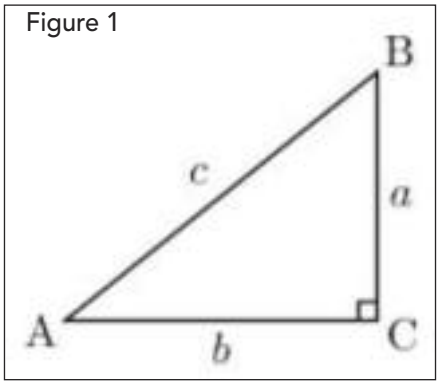
Most people will laugh and say something like: "I didn't know there was any problem to solve there." But there are problems and there have been for a long time, and insiders know that.

Both in rocket science and quantum mechanics, big problems have cropped up in the vicinity of *pi*, although no one before me thought to question *pi* itself.

In the space program, engineers began seeing real-life failures of the equations from the beginning. In the late 1950s, the American program headed by Dr Wernher von Braun began admitting major equation failures. Rockets simply weren't where they were supposed to be, but *only when* curved trajectories were involved. The first rockets to orbit the Earth were late by huge amounts, indicating that the equations were wrong by something over 20 per cent. The Russians found the same problem.

In press releases, they indicated—and still indicate—that the problem was with the propellants, but behind the scenes they pursued other possibilities. Just as they assign equation failures now to dark matter, in the 1960s they asked themselves if this rocket problem

Figure 1



was caused by unknown aethers or forces of nature. As it turns out, the failures in the rocket equations are exactly the same size as the gap between *pi* (π) and 4.

A similar problem arose in quantum mechanics. Since quantum particles often move in orbits or curved trajectories, the same sort of equation failures occurred there. The mainstream admits that it has to ditch classical geometry and resort to what is called the *Manhattan metric* to solve some quantum problems. This is curious, since in the Manhattan metric *pi* = 4.

Some have taken exception to my way of stating that. They say that *pi* is 3.14… and can't also be 4. They say that I should come up with another Greek letter at the least. But *pi* isn't defined as 3.14… *Pi* is defined as the ratio of a circle's circumference to its diameter. I have proved that when motion is involved, that ratio is 4. Therefore, it is correct to say that *pi* = 4.

Others have said that even if I am right, it is just a quibble since in most cases *pi* will still be 3.14… But that simply isn't true. In physics—and therefore in the real world—almost all uses of *pi* include motion. When *pi* is used in physical equations, 99 per cent of the time those equations include a velocity of some sort. This is why I provocatively titled my original paper "The Extinction of *Pi*". In a few years, the number 3.14… will be a virtual relic.

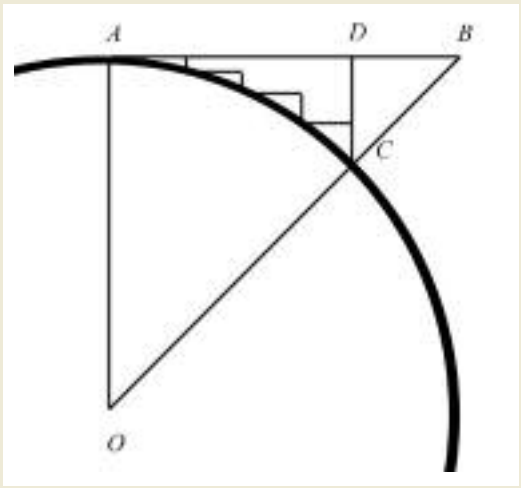
I am going to try to explain it in the simplest possible way. To move in a curve, you have to combine two motions. You have to move forward and sideways at the same time, right? So let's start with a right-angled triangle (figure 1).

Let us say that points A and B are on a circle and you wish to travel from A to B. It seems like the simplest thing to do would be to take the path *c*, since it is the most direct. You just cut straight across on the hypotenuse. In fact, that is what the ancient Greeks assumed, and their original assumption has skewed this problem ever since. It is still the assumption today.

Mainstream physicists and mathematicians still assume that the circle is composed of a lot of little *c*-paths. They make the *c*-paths very tiny and then sum them, giving them the circumference of the circle. But what I have shown is that they have cheated. You can't take the path *c* because it doesn't correctly represent the forward motion and the sideways motion that we just talked about. Obviously, the path *a* represents the forward motion and the path *b* represents the sideways motion. Therefore, no matter how tiny you make that triangle, you have to keep the *a*- and *b*-paths.

You will say: "C'mon, that can't be right! I can draw that triangle on

The Extinction of *Pi*: The Short Version



Given the diagram here, which is part of a circle, we let AO = AB. This makes the angle at B equal to 45°, which means that DB = DC.

This must mean that, by substitution, AD + DC = AB.

The distance AD + DC can be redrawn as any number of subdistances, as shown in the diagram. Here we divide the distance into four subdistances, taking us from A to C in four steps.

This new path drawn by the subdistances is equivalent in length to AD + DC, as can be seen by any cursory analysis. It is nearer the *path* of the arc AC, but it retains the original *distance* of AD + DC.

If we divide the distance into eight subdistances instead of four, we approach the path of the arc AC even nearer; but, again, we retain the original distance of AD + DC.

If we take this process to its limit, we take our path to the path of the arc AC. This must mean that the length of the arc AC is equal to the distance AD + DC. By substitution, this means that arc AC = AB.

Since eight such arcs make up the circle, the circumference of the circle is 8AB.

Since AB = AO and AO is the radius, we have found that C = 8*r*.

Pi (π) does not exist in the circle equation. It is extinct.

Some will say that this is just doing the calculus wrongly, but I claim that history has done the calculus wrongly and I have not.

The common answer to my demonstration above is that at the limit, defined as it currently is, the total length of the steps never approaches the arc because even with a very large number of steps, the distance between each step and the curve remains real. We can sum this distance even at the limit, keeping the sum of the steps above the sum of the curve. It is not the sum of the steps that approaches the curve; it is the curve that approaches the chord. In other words, it is the hypotenuses of the little triangles that converge upon the curve, not the sums of the other legs of the triangles.

While I recognise that this is the common interpretation, I cannot agree with it. In my paper on Newton's lemmae (see my web page http://tinyurl.com/h9kxaal), I proved that the tangent in his triangle must be longer than the chord and arc at the limit. If we apply that to this problem, it means that the arc cannot approach the chord at the limit. The tangent is a component of the arc, by Newton's own definition of it in the *Principia*, so if the tangent is longer than the chord at the limit then the arc must be, too.

This means that the curve does not approach the hypotenuses of these steps, no matter how many there are. The hypotenuses are the chords, and they cannot be approached by the arc or tangent.

You will now ask where in the *Principia* does Newton say that the arc is composed of the tangent. It is where he tells us that the orbital motion is composed of the centripetal acceleration and the innate motion of the body. These two vectors compose the orbital motion. They are the only two motions given to us by Newton, and he explicitly assigns the innate motion of the body to the tangent.

This means that the historical and current interpretation cannot be correct. The hypotenuses do not converge to the curve or the arc. As I show in the diagram, it is the tangent that converges upon the arc, but the convergence happens only when the tangent equals the radius. This convergence can happen only at 1/8th of the circle, and it happens just as I show in my papers. It happens because the arc is never a continuous curve, even at the limit.

The arc is defined as a curve composed of linear or straight vectors, therefore it can never be continuous, if by "continuous" we mean that the time or length travelled goes to zero. Logically, the time or length cannot go to zero since there is no time or length at zero. All numbers in mathematics and physics imply a differential; and since this is so, the curve cannot be thought of as continuous in this way. The curve must be thought of as composed of linear vectors, even at the limit.

And since this must be true, it must also be true that the path I have drawn in the diagram must converge upon the arc for precisely the reasons I have stated. The path does converge upon the arc in the sense that the path gets nearer to the arc. No one can deny that, at least. But since the arc is not continuous even at the limit, the path truly does converge upon the arc as we draw more steps.

Since the distance doesn't change no matter how many steps we draw, the tangent must converge upon the arc. Or, at 1/8th of the circle, the tangent simply *is* the arc.

(Source: Edited from the web page http://milesmathis.com/pi3.html.)

the ground, and I can always walk that *c*-path. There is nothing stopping me." True, but if you are walking that *c*-path, you aren't actually walking a curve, are you? You are walking a straight line. And if you combine a lot of those *c*-paths to try to create a circle, you aren't really creating a circle. You are creating a polygon. Even if you make your circle out of thousands of those *c*-paths, in each little triangle you are still cutting the corner. If you cut the corner, you aren't representing forward motion and sideways motion at the same time in your fake circle. So it isn't really a circle. *You are not creating real circular motion.*

You will say: "Even so, if I make those *c*-paths tiny enough, I will still get the right number for the circumference of the circle. Everyone knows that." In this case, what everyone "knows" is wrong. In fact, if you cut all the corners in each little triangle, you end up getting a number for the circumference that is *way* too small. It is 21 per cent too small, which is a lot. It isn't a marginal error; it is a huge miss.

You may still not understand, and in my other papers I explain it at much greater length, doing more maths. But if you haven't followed me here, you probably won't follow me there. However, if you ask why the ball in the circular tube is taking so long to get around, the simplest answer is because it isn't cutting the corners. It isn't taking the *c*-paths. It is taking the *a* and *b* paths.

[See the YouTube video clip at http://tinyurl.com/h8amdf2 for an animation that shows how the curved path is created with perpendicular straight paths.]

If you have any friends who are mathematicians, they will tell you that you have to know calculus to understand this, but that is just a dodge. I just told you why it is true, without calculus. However, I will tell you what they will say. They will say that when you *integrate* the *a*- and *b*-paths, you get the *c*-path.

Integration is a calculus move. It is true that integration is involved here, but if you integrate correctly you *don't* get the *c*-path.

The calculus that they currently apply to this problem is right, but it is wrongly applied. I may be able to make you understand why it is wrongly applied, even without teaching you calculus.

The Time Variable

The diagram of the triangle [see first page] is a simplification of the problem because it doesn't include *time*. It is geometric only. So although it is correct as far as it goes, it doesn't really tell you the whole story. It helps you understand that the ball can't take the *c*-path, but it doesn't really tell you exactly how the ball combines the two motions into the curve.

What you have just discovered is that the ball *doesn't* combine the *a*- and *b*-paths. In other words, it doesn't *integrate* them in some magical calculus way. No matter how small you go or how many little triangles you have on your circle, the *a*- and *b*-paths remain distinct and at right angles to one another. They never combine into a *c*-path.

So why do we need calculus at all, you will ask? Because, to solve this with maths, we have to integrate both *a* and *b* with time, *t*. In other words, we don't integrate *a* with *b*; we integrate *a* with time *t* and *b* with the same time *t*. If you don't like the word "integrate"—because it is a calculus term—I can say it this way: we have to *track* how *a* changes with time and the way *b* changes with time. That's how we include time in the problem.

Currently, when physicists or mathematicians try to solve this problem with calculus, they basically leave time out of it and track *a* against *b*. They integrate motion *a* with motion *b* to get motion *c*, which is the *c*-path. But although the calculus they use to solve the problem is correct in itself, they are *applying* it wrongly. Since all physics is applied mathematics, you have to apply the maths correctly. If you apply the right maths incorrectly, you will get the wrong answer.

This is why in my other papers I have offered *cycloid* maths as the solution here. A cycloid is a rolling circle. The reason why cycloid maths helps is that it explicitly includes the time variable. It integrates the *three* variables, *a, b* and *t*. Beyond that, the cycloid maths *applies* the variables to the problem in the right way, so all we have to do is to take the cycloid maths and apply it to the distance around the circle. It solves this problem perfectly, giving us the right answer: the circumference of the circle is 8*r*.

But why would the cycloid maths work here? Because if you are moving around a circle, it is like you are moving around a circle that is rolling in place. In other words, it is like taking a rolling wheel but not letting it move forward. It is just spinning in place. You then position yourself at some point on the rim of the wheel. As it moves around, so do you. You are then in circular motion. *That is what the current cycloid maths actually represents.*

Why *Pi* Isn't Right

That said, most people will still not understand how I thought to question such a thing. I am not a famous quantum physicist or NASA scientist. Plus, I admit that I didn't even know about those rocket and quantum problems when I solved this. I only found them as confirmation after the fact. I didn't know about von Braun's equation problems until after writing my *pi* papers. I didn't know about the Manhattan metric until four years after I wrote the original paper on *pi*. I didn't even link this to the cycloid maths—where *pi* is also 4—until several years later. So how did I manage to solve a problem that I didn't even know existed?

Well, I came at it kind of sideways,

since I was solving related problems. It wasn't *known* that the problems were related until I showed it, but they are. I was working on Newton's orbital equations, which I saw as having some disclarities. To say it another way, they didn't make sense to me. I thought his proofs contained some big holes, and the more recent updates of these proofs by famous guys like Dr Richard Feynman seemed to me no better. In fact, I showed that they were worse.

Since an orbit is just motion in a circle, I think you can see the link. So I started over from the beginning, re-running Newton's equations with a few corrections. These corrections solved many problems, but not all of them. It wasn't until a couple of years later that I thought to look at *pi* itself.

My corrections to the orbital equations suggested that *pi* simply couldn't be right. I found that the old orbital equations—including Newton's—were naïvely based on Euclid's geometry, which didn't include time. The geometry you learn in school doesn't include any velocities. It only includes lengths. If you calculate *pi* in geometry—with no time and no velocities—you do indeed get the number 3.14… But in physics, that maths isn't useful. In physics you almost always have a motion that you are tracking, so time is involved. You have to replace every length with a velocity. And if you do that, you can't use Euclid's geometry. It doesn't have enough variables. You are always a variable short.

This means that the old orbital maths was always a variable short. It was incomplete. It didn't include time. Because it didn't include time, it couldn't represent the real world. It could only work in a book problem where everything was happening at some imaginary instant. This ended up making all the maths explode.

In quantum mechanics there is a thing called *renormalisation*. It is what they have to do to equations that have exploded. Basically, when you try to solve real-life problems with equations that don't properly include the time variable, your equations start spitting out zeroes and infinities. In quantum mechanics, this happens to all their equations. They admit it, but don't understand why. In other words, they are trying to solve kinematic problems with geometry. It would be like trying to paint with a pencil.

Likewise, you can't solve physics problems with geometry because you don't have *time*. They try to stir time back into the equations at the end, but it has never worked. *(Source: Edited from the full version of this article at the web page http://milesmathis.com/pi7.pdf.)*

Notes on the Extinction of *Pi*

Many readers, especially those just coming to my papers, will hit a wall at some point in this paper. Those who do start with this paper will very likely be led to believe that I am doing the calculus wrongly. To these people, I say that it is not I who am doing the calculus wrongly. It is Newton and Leibniz and Cauchy and everyone since who have been doing the calculus wrongly. I have earned the right to write this paper by first writing three important papers on the foundations of the calculus.

The first paper[1] shows that the derivative has been defined wrongly from the beginning, and that the derivative is a constant differential over a subinterval, not a diminishing differential as we approach zero. There is no necessary approach to zero in the calculus, and the interval of the derivative is a real interval. In any particular problem, you can find the time that passes during the derivative, so nothing in the calculus is instantaneous, either. This revolutionises quantum electrodynamics by forbidding the point particle and bypassing all need for renormalisation.

The second paper[2] proves that Newton's first eight lemmae or assumptions in the *Principia* are all false. Newton monitors the wrong angle in his triangle as he goes to the limit, achieving faulty conclusions about his angles and about the value of the tangent and arc at the limit.

Finally, the third paper[3] rigorously analyses all the historical proofs of the orbital equation $a = v^2/r$, including the proofs of Newton and Feynman, showing that they all contain fundamental errors. The current equation is shown to be false, and the equation for the orbital velocity $v = 2\pi r/t$ is also shown to be false.

Those who don't find enough rigour or maths in this paper should read those three papers before they decide that this is all too big a leap. I cannot rederive all my proofs in each paper or restate all my arguments, so I am afraid more reading is due for those who really wish to be convinced.

This paper cannot stand without the historical rewrite contained in those papers, and I would be the first to admit it. ∞

Endnotes

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2. Mathis, Miles, "A Disproof of Newton's Fundamental Lemmae", 2005, http://tinyurl.com/h9kxaal
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(Source: Edited from the web page http://milesmathis.com/pi2.html.)

About the Author:

Miles Mathis is an artist as well as a researcher and writer who covers subjects including art, mathematics, physics and history.

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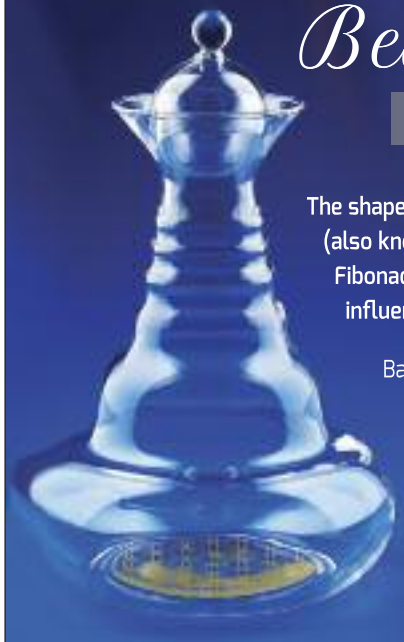

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Phoenician Stonehenge in America?

Photo: NikiSublime, flickr.com

by Suhail M. Jalbout © February 2017

Phoenician maritime adventurers may have sailed to and colonised the Atlantic coast of North America several thousand years ago.

Was Christopher Columbus the first to reach America in 1492, or did the Phoenicians make the trans-Atlantic journey much earlier? It seems that there is enough evidence to suggest that the Phoenicians settled in North America between 2,500 and 3,000 years ago after they established their colonies in Spain and Morocco on the Atlantic coast.

In this article I present the discoveries and hypotheses that point to this theory. I do this in two parts: first, I list researchers' findings of evidence that alludes to a Phoenician presence in North America prior to Columbus's arrival; and second, I give theoretical evidence for how and why the Phoenicians could have made that journey. I hope that the data presented in this article will provide sufficient confirmation that the Phoenicians did indeed settle on the northeastern coast of North America thousands of years ago.

The Theory: The Phoenicians Settled the Northeastern Coast of the United States

Indication 1. America's Stonehenge

There is an archaeological site in the town of Salem, New Hampshire (northeastern USA), called "America's Stonehenge". This site consists of numerous large rocks and stone structures scattered around approximately 30 acres (120,000 square metres) within the town. The site was reported in 1907 in the book *History of Salem, N.H.*, compiled by Edgar Gilbert. This stonehenge stands on

Sunrise at Stonehenge, Wiltshire, England

the summit of Mystery Hill, the name given to the site by William Goodwin, an insurance executive who purchased it in 1937. In 1982, the area was renamed "America's Stonehenge" in an attempt "to separate it from roadside oddity sites and reinforce the idea that it is an ancient archaeological site".[1]

This megalithic astronomical complex consists of massive standing stones, stone chambers, large drains, enclosures, retaining walls, niches, basins and a well. On the slopes of the hill, there are two natural caves, springs, stone walls and standing stones.

Carbon dating carried out in 1971 on charcoal found alongside a stone pick and a hammer stone unearthed at an excavation near one of the underground chambers reveals a date of 2000 BC. The artefacts excavated from an intact pit that had layers of strata above it are related to Neolithic pieces of the same era in the British Isles and Iberia. Charcoal dating of tree roots that penetrated one of the other chambers reveals a date of 1690 BC.[2] Additional dating of artefacts places them in the period between 2000 and 173 BC.[3]

Although some carbon dating of charcoal pits at the site suggests that Mystery Hill was occupied some 4,000 years ago, archaeological and architectural studies indicate that the site was not built as a single project but was constructed in stages. It seems that the ancestors of the current Native Americans who occupied the site used the stones from the rocky site to build their own shelters. When new visitors discovered the site, they probably realised that it was the perfect location to build an astronomical observatory that met their needs. As a result, they must have modified and upgraded the existing structures, added new ones and erected stones to align with astronomical events.[4]

A. The architecture of these stone structures is similar to Phoenician

Some scholars argue that there are similarities between these ruins and Phoenician architecture.[5] What they probably mean is the presence of a shrine resting on a short column of blocks with a platform, a very large stone basin, and walls, rock dwellings, chambers, tombs and a sacrificial altar.

B. The summer solstice line ends in Phoenicia

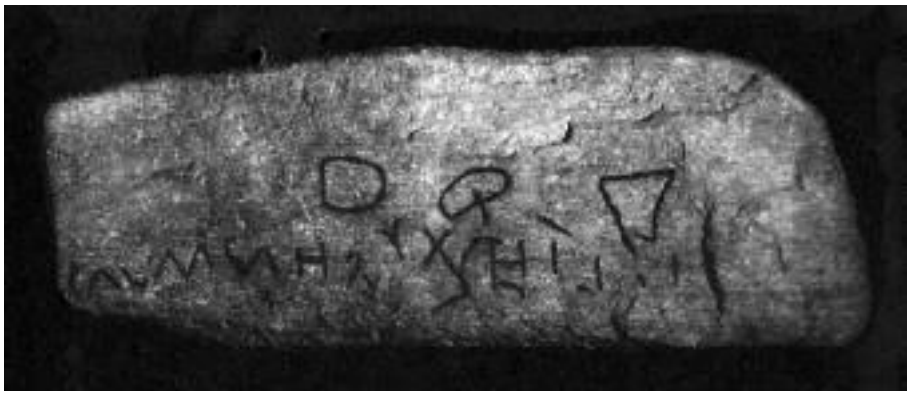
One interesting aspect of this site is the alignment of the stones. A YouTube video shows how the stones line up with the summer and winter solstices and with the equinoxes, when the Sun is on a level plane with the Earth's equator, and the cross-quarter days which fall in between them.[6] What is more intriguing is that the line of the summer solstice at America's Stonehenge, if extended, passes through one of the trilithons at Stonehenge in England and continues east to the south of Beirut, Lebanon, the home of the Phoenicians.[7]

This precise alignment is very interesting and could be proof that America's Stonehenge was erected by the Phoenicians if an astronomical site existed to the south of Beirut in the remote past. The area where the line intersects Lebanon is called the Sands of Beirut.[8]

There is evidence of stone circles in this area south of Beirut. Lorraine Copeland, an archaeologist with over 50 years of experience, and Peter Wescombe, a British diplomat who was stationed in Lebanon in the period 1963–66, researched the area in the early 1960s. They found an important ancient archaeological site located at the eastern end of one of the Beirut airport runways. In 1964, Lebanese archaeologist M. Roger Saidah carried out preliminary excavations.[9]

The site, some 500 square metres in area, contained two sectors side by side. One zone had red sand and the other modern sand. Human burials were found in the first, and six circular stone structures in the latter. At that time, these circles were situated about 20 to 40 metres

The complex at Salem, New Hampshire, contains stone-walled chambers covered with large rock slabs. (Photo: J. Miers)



The inscribed Bourne Stone. (Photo: Bourne Historical Society)

from the airport runway. The circles were formed from large river boulders varying in diameter from eight to 15 metres. The stones of the circles were irregular oval or round in shape and varied in height between three and six metres. Unfortunately, all the circles were demolished in the mid-1960s due to building operations. Flints including Levallois cores, flakes and other waste materials were found dispersed across the area but gave little evidence regarding the age of the stone circles.[10]

These six circles must have been an astronomical site. It is well known that the ancients built stone circles to mark astronomical events. They erected them beside graveyards so they could perform special rituals for the dead at solstices and equinoxes.

Since the summer solstice line that leaves America's Stonehenge site passes through the estimated location of the six circles, it is logical to conclude that this Beirut site was Phoenician Stonehenge. The Mystery Hill site would have been a suitable location for rearranging the stones, already in existence from a previous settlement, into a stonehenge. It is quite possible that the Phoenicians intended to build a stonehenge in the land where they settled and orient it in the direction of their homeland, Phoenicia. The only everlasting phenomenon for indicating the origin of the builders is the astronomical events which occur on a yearly basis: they don't change, but remain for as long as the Sun and the Earth exist.

C. Writing on some stones is Phoenician

Markings on some stones have been found at the American Stonehenge site. Barry Fell, who was a professor of invertebrate zoology at the Harvard Museum of Comparative Zoology and also known for his work in epigraphy, brought the importance of these scratches to national attention. In his 1976 book *America B.C.*, he recognised that these markings are actually ancient writing. Fell claimed that inscriptions discovered at the site represented markings in Ogham script as well as Phoenician and Iberian scripts, which he also called Iberian–Punic.[11] The writing on the stones could not have been forged because incredible language skills and knowledge would have been required to produce them. Fell was first able to decipher one of the stones in 1967, finding that it mentions a temple dedicated to the Phoenician sun god Baal.[12]

Hundreds of Ogham inscriptions have also been found side by side with Phoenician inscriptions. Similar inscriptions have been found on flagstones, indicating that they were grave markers. This is good news because, as expected, there should have been a burial site close to the stonehenge. It seems that the location of the gravesite was lost when these stones and others were removed from the site.[13] Apparently, many of the older churches, houses and fences in the area contain stones from the site. Most of the stones, however, were used for street kerbing and for construction of Lawrence Dam in nearby Massachusetts. Ancient inscriptions can still be found on stones that were used to build these more modern-day structures.

One of the stones found in about 1680 in Bourne, Massachusetts, 78 miles (125 kilometres) from Salem, became known as the Bourne Stone.[14] Whether there was a settlement there or the stone was moved there from Salem is not clear, but what is certain is that Fell translated the inscriptions to read: "A proclamation of annexation. Do not deface. By this Hanno takes possession." Hanno was a famous Phoenician explorer and a prince or king of Carthage, said by the ancient Greeks to have circumnavigated the Northern (Atlantic) Ocean c. 480 BC.[15]

D. Writing on a stone speaks of the Canaanites' Baal

A stone known as the Baal Stone, found at America's Stonehenge, has inscriptions that were translated as: "To Baal on behalf of the Canaanites this is dedicated."[16] The Phoenicians called themselves Canaanites, and Baal was their most important god. In the Bible's Book of Genesis, the Canaanites are identified as descendants of Canaan, a son of Ham and a grandson of Noah. They were also called Phoenicia and Phoenicians. Their main god was El, but they had other deities with specific functions. Baal was the god of rainfall and fertility.[17]

E. A sacrificial stone resembles Phoenician altars

A 4.5-ton stone, known as the Sacrificial Table, of dimensions nine by six feet (2.7 by 1.8 metres) and positioned on four stone legs, is located in the centre of a large courtyard at the stonehenge site. The top of the stone has grooves near the edge. Some archaeologists believe that the purpose of the grooves was to channel blood from the sacrificial human or animal to drip off into a vase.[18] It's interesting to note that there seems to be a cut-out section for the vase to sit in.[19] Human sacrifices

are known to have been offered by the Phoenicians to their god Baal on special occasions.

Indication 2: Manana and Monhegan islands off the coast of Maine were Phoenician ports

Manana is a small island adjacent to Monhegan Island, which is about 12 nautical miles (22 km) off the coast of Maine. Monhegan Island lies about 164 miles (264 km) from the Bay of Fundy and 116 miles (187 km) from Mystery Hill. An inscribed rock found on Manana Island is known as the Monhegan Inscription. Barry Fell was able to decipher it to read: "Cargo platforms for ships from Phoenicia".[20] It seems that the harbours of Manana and Monhegan islands served as ports for the Phoenician ships to dock and trade their goods.

According to historian and author Thomas Fleming:

"From [this] and other inscriptions, as well as an intensive study of historical data on the seafaring ability of the men of Tarshish and Carthage, Fell concluded there was a highly developed trade route between America and the Mediterranean for at least 400 years before the birth of Christ. The chief products from North America were probably copper, furs and hides."[21]

Tarshish was a city that some scholars believe was located on Spain's Mediterranean coast. It was known for its sailors who were among the boldest in antiquity. Tarshish was allegedly destroyed c. 533 BC by the Carthaginians, who then took over its trade. Inscriptions have been found elsewhere in North America referring to the Tarshish people.[22]

Barry Fell was able to decipher it to read: "Cargo platforms for ships from Phoenicia".

Indication 3: A Carthaginian gold coin map

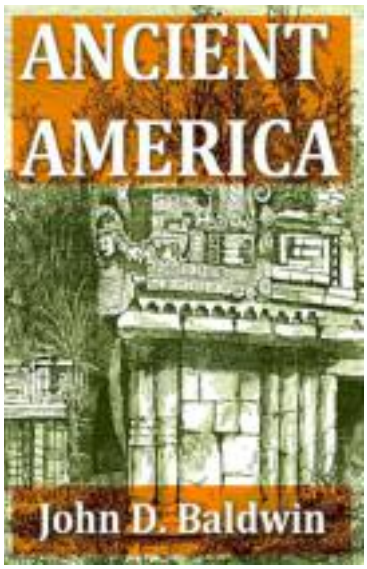
The Punic–Phoenician city state of Carthage, located on the eastern side of the Lake of Tunis in what is now Tunisia, minted gold staters c. 350 BC. Such gold coins display a pattern on their reverse exergue. Geologist Mark McMenamin has interpreted the pattern to resemble "a map of the Mediterranean with the Americas shown to the west across the Atlantic".[23]

As noted at Phoenicia.org website, in formulating his assumption McMenamin used computer enhancement to analyse the images of gold coins minted in Carthage between 350 and 320 BC. If his interpretation is true, "these coins not only represent the oldest maps found to date, but would also indicate that Carthaginian explorers had sailed to the New World".[24]

Indication 4: Aristotle's writing

In the collection of anecdotes titled *On Marvellous Things Heard*, attributed to Aristotle, it is revealed:

"In the sea outside the Pillars of Hercules [Strait of Gibraltar] they say that an island was discovered by the Carthaginians, desolate, having wood of every kind, and navigable rivers, and admirable for its fruits besides, but distant several days'… voyage from them."[25]



As researcher Paul Tudor Angel comments:

"This may have been a reference to the Americas. (Ancient mariners called any newly discovered piece of land an island, as they had no way of knowing, without attempting to sail around it, whether it was an island, a peninsula, or a continent.)"[26]

Indication 5: The book *Ancient America*

According to anthropological writer John Denison Baldwin in his 1871 book *Ancient America*:

"The known enterprise of the Phoenician race, and this ancient knowledge of America, so variously expressed, strongly encourage the hypothesis that the people called Phoenicians came to this continent, established colonies in the region where ruined cities are found, and filled it with civilized life. It is argued that they made voyages on the 'great exterior ocean', and that such navigators must have crossed the Atlantic; and it is added that symbolic devices similar to those of the Phoenicians are found in the American ruins…"[27]

How and Why the Phoenicians Could Have Reached the East Coast of North America

Having listed some indications to the theory that the Phoenicians sailed to North America, I now focus on how and why they could have made such voyages.

1. The Phoenicians were famous sea adventurers

The Phoenicians were most powerful from about 1500 to 300 BC.[28] They were based along the eastern shore of the Mediterranean, specifically in Tyre, Sidon, Beirut, Byblos and Tripoli. From this shoreline, they discovered the purple dye that could be extracted from the murex sea snail. Their purple-dyed cloth was very expensive and could only be afforded by royalty and wealthy people. The Greeks called the people Phoenekoi, meaning "wearers of the blood-red cloth" in reference to the purple dye. The Phoenicians were farmers, foresters and craft workers skilled in woodworking, glass-making, soap production and textile weaving. They devised methods to produce olive oil and make wine. To market

Detail from "Phoenicians Bartering with Ancient Britons", spirit fresco on canvas painted by Frederic Leighton in 1894–95. (Photo: The Bridgeman Art Library)

their products, they explored the open seas. They traded their goods all over the Mediterranean and became known as adventurous maritime people with exceptional trading power.[29]

The Phoenicians made alliances easily and established settlements in various ports around the Mediterranean, Carthage being the most important. By 700 BC, they were the chief suppliers of raw materials to the Assyrian Empire and were also agents of the Egyptians, providing gold, tin, copper and other precious goods to these great powers.[30] This implies that the Phoenicians ventured farther out of the Mediterranean Sea to western Spain, southeastern Britain and western Africa. Evidence of trade and friendship with the Egyptians can be observed in the ruins at Byblos, where Egyptian monuments lie side by side with Phoenician.

There are stories told of a Phoenician seafarer called Hanno, "who explored and colonized along the African coast around 500 B.C.". They say that he founded seven cities and set up several trading posts. "The Greeks had copied inscriptions from the Temple of Baal in Carthage, and they survived in manuscript form from the 10th century A.D. referring to the voyages of this man… But their accounts also tell us Hanno was a king of southern Spain, with his home port being Phoenician Cadiz… [T]he Phoenicians were the founders of the city of Cadiz. It is interesting to note, the Phoenicians' documented travels from Iberia to Africa and then to India would have been twice as long as an Atlantic crossing."[31]

Certainly the Hanno whose name is written on the Bourne Stone is the same person mentioned above. However, Hanno could not have been the only Phoenician seafarer who ventured far and beyond. It is very possible that others had the ambition, courage and curiosity to cross the Atlantic and land in North America.

The Phoenicians' navigation skills were unequalled in their day. Their sailors were in great demand to man the ships of all countries. A 1930 book *Monhegan, the Cradle of New England* notes:

"Sails on Phoenician crafts were so arranged that they could sail only with the wind nearly aft. The prevailing winds at Cádiz are southwest during the winter months and as Cádiz is 36° N. L. and Monhegan 43° 45' and 52", these winds if continual could easily have brought them to this island. Cádiz has also the high tides like those that rise and fall on Monhegan's rocky shore."[32]

2. The Phoenicians built very powerful ships

The Phoenicians were not only the most active explorers of the age, they also built some of the largest seagoing vessels of the period. They had the tough cedar wood, the shores and the labour. They needed strong, solid ships to carry their goods across the seas. Trade was their speciality, their livelihood and their incentive to venture into unknown waters.

The Phoenicians had the means, experience, skills, ambition and love of adventure to seek new, distant lands for trade and profit. Their ships must have been capable of handling the hardships at sea and on the ocean. For these reasons, they were the sea masters of antiquity.

3. The Phoenicians were sky-watchers

The Phoenicians navigated the Mediterranean and the Atlantic in short-haul voyages at first, always keeping sight of the shore. They traded between the towns along the coast during the daytime and anchored safely for the night. However, they would watch the stars at night and paid particular attention to Polaris, the North Star, which was known in ancient times as the Phoenician Star. This discovery paved the way for navigation into far-distant, deep seas. They maintained direction by observing the positions of Polaris and the Ursa Minor constellation.[33] In fact, they were the first to use celestial navigation to travel directly from point A to point B, thus reducing distance and time by not following the coastline.

When the Phoenicians sailed during the day, they watched the birds and observed their migration patterns.

Phoenicians seafarers may have been led to the Bay of Fundy, in the Gulf of Maine, by migrating birds.

And from watching migrating birds, they discovered new lands both in the Mediterranean Sea and in the Atlantic Ocean. They knew that migratory birds seek distant lands for food, water and nesting. So it is highly probable that the Phoenicans followed the birds that migrated from Europe or Africa to the New World.

4. Migrating birds could have guided Phoenician sailors to the Bay of Fundy

There are many bird species that migrate across the Atlantic on a yearly basis, such as the cattle egret, songbird, Manx shearwater and Arctic tern. However, the great shearwater is of special interest because the Phoenicians may have followed its migration route. This seabird keeps on circulating through the Atlantic Ocean. One of its major landing spots is in the Bay of Fundy on the Atlantic coast of North America.[34]

Since the Phoenicians were in Spain, Portugal, Morocco and the Canary Islands in addition to the British Isles for their tin sourcing and trading, it is highly probable that they encountered the great shearwater during their travels in the Atlantic. Had they followed its migration route, they would have ended up in the Bay of Fundy in the Gulf of Maine, only 280 miles (450 km) from America's Stonehenge in Salem, New Hampshire.

If the papyrus boat *Ra II* could make the journey from Safi in Morocco to Barbados in the Caribbean, it is highly possible that the Phoenician ships craftily made of cedar wood could have equally withstood the journey irrespective of the route. It is worth noting that one of the royal ships of Khufu, which was found intact in a pit beside the Great Pyramid 4,500 years after it was buried there, is made from cedar wood.[35]

Conclusion

The Phoenicians were superb seafarers who had goods to sell or trade. They had strong, capable ships that could take them across seas and oceans. They were guided by the stars and birds and likely followed the migration route of the great shearwater to the Bay of Fundy. South of there, they established ports on the islands of Manana and Monhegan. They needed to trade their goods on the mainland, so they must have crossed to the coast and reached Mystery Hill. There, they would have found an ideal location to build their stonehenge and align it with their homeland, Phoenicia.

One can imagine that the Phoenicians crossed the Atlantic in their ships with their treasured goods to trade with the natives of the faraway land, and on their return journeys brought back goods from this new world to sell to the Mediterranean settlers.

I would encourage scientists to take up the points discussed in this article and attempt to find Phoenician DNA among ancient graves of megalithic sites on the East Coast of the USA as well as sunken artefacts in the Gulf of Maine.

In my view, the Phoenicians deserve to be given credit for reaching the New World millennia ago. ∞

About the Author:

Suhail M. Jalbout is a Professional Engineer based in Beirut, Lebanon, where he was born. He graduated from the American University of Beirut in 1962 with a BEng (electrical) degree, and from Edinburgh University, UK, in 1963 with a postgraduate diploma in electronics and in 1964 with an MSc degree. He has taught at the College of Engineering, Riyadh University (now King Saud University) in Saudi Arabia, was general manager

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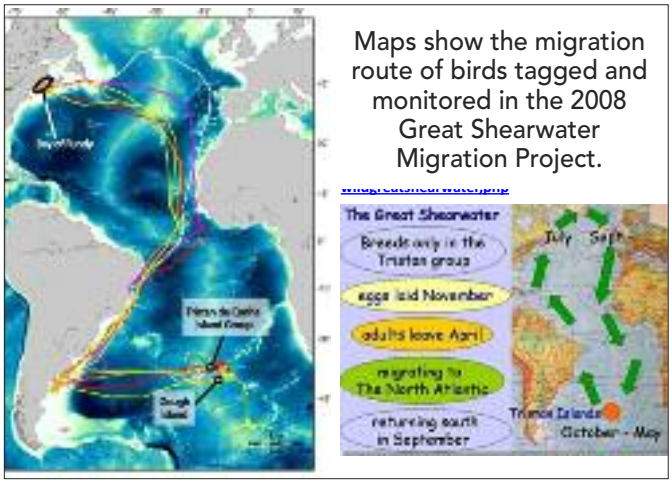

Maps show the migration route of birds tagged and monitored in the 2008 Great Shearwater Migration Project.

(Source: http://tristandc.com/wildgreatshearwater.php)

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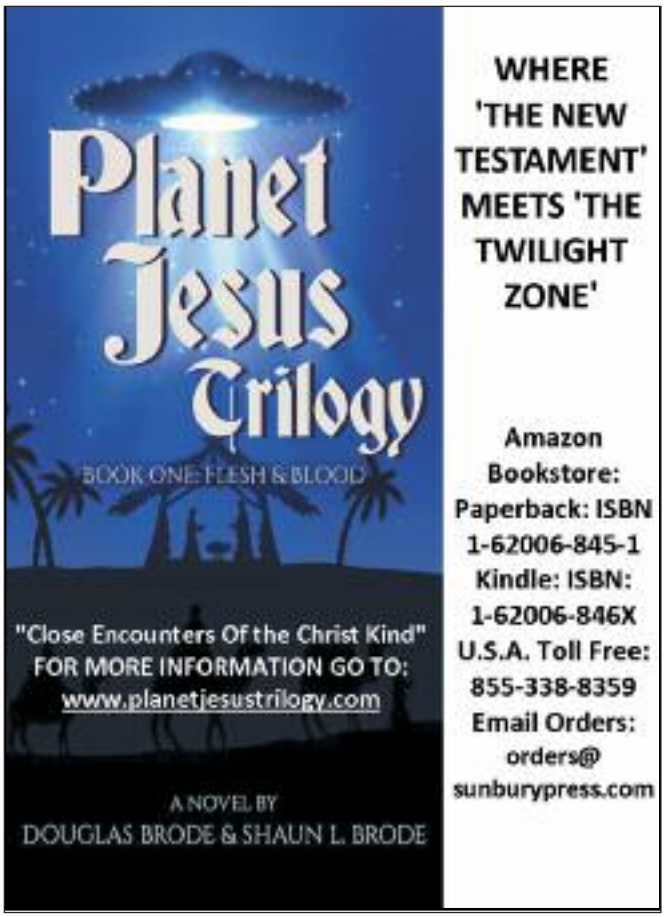
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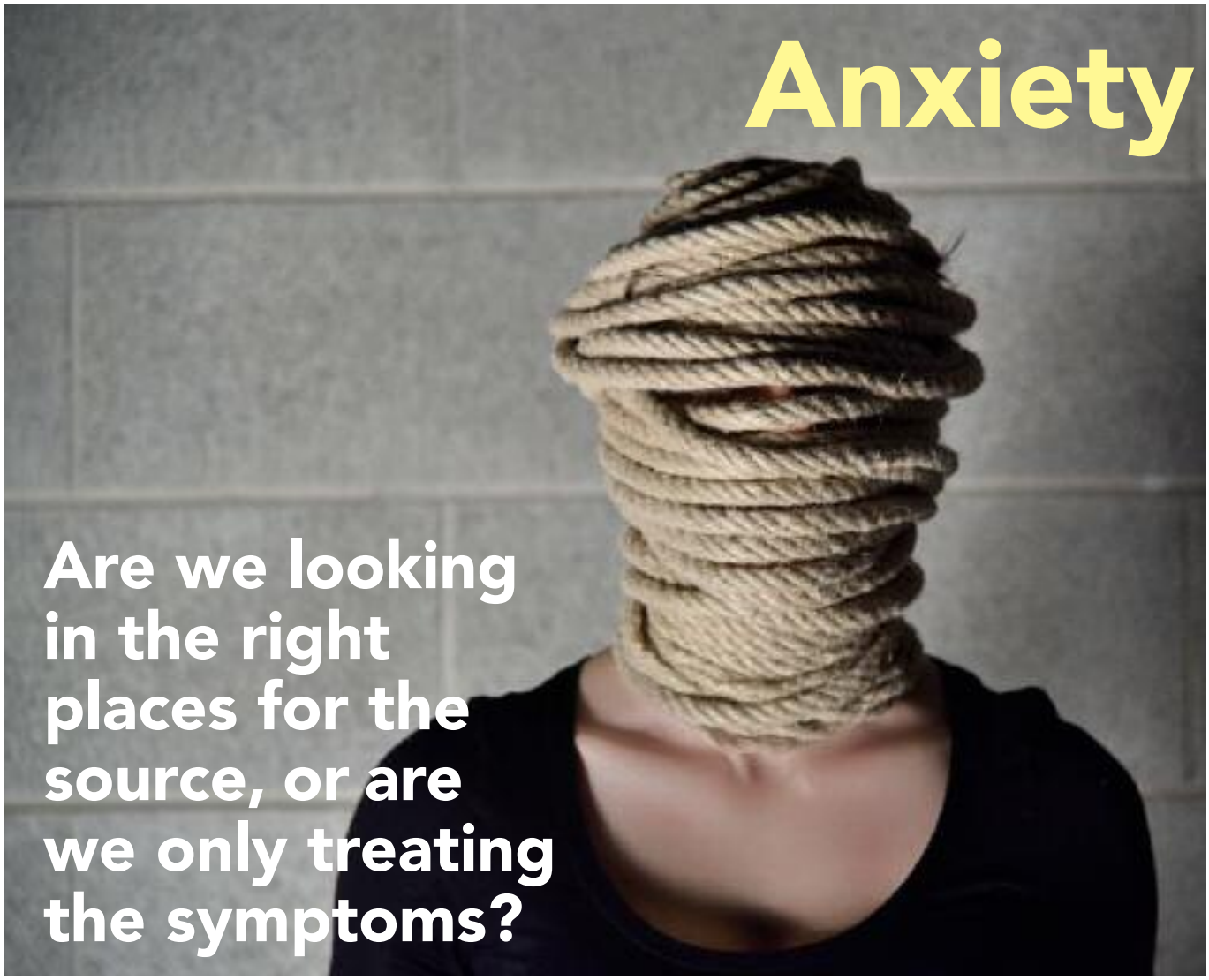


Photo: Nino Caré, unsplash.com

by Peter Smith © February 2017

It is now affecting me in so many ways. I'm taking time off work and I'm worried about my job. I'm avoiding people and I just want to stay home. The only place I feel truly safe is wrapped up in bed...

– Janet, a professional, aged 35

A Rapidly Worsening Modern Epidemic

For years now, I've been listening to stories like Janet's. In recent times they have increased in number, and more often these days they come from younger people, even children.

This article needs to be written for those kids and for their kids yet to be born, as this rapidly increasing epidemic spreads. The generations that follow us will have to deal with far greater global issues than we've had to. We must prepare them well and leave them a strong legacy in the hope that they can heal humanity in ways that our generation hasn't been able to do. This means

that we have to find new and creative solutions to this epidemic of anxiety and set the generation that follows us…*free*.

For the past 12 years, I've been a clinical hypnotherapist in Melbourne, Australia, working on the frontline with people's emotional disorders. I've studied anxiety and depression through the eyes of hundreds of clients, crafting individual solutions to what they encounter daily, and I've come to some conclusions.

1. Our mental health system doesn't have a panacea for all those affected. While various organisations are helpful in offering education and support groups, they are often unable to find the source of the issue—or, if they do, they have difficulty in remedying it. Anxiety needs to be "managed", my clients are often told. I firmly believe that anxiety needs to be and *can* be healed—or, more accurately, *released*.

2. Many people are dependent on medications, which offer some form of temporary relief. However, I'm constantly told by my clients that while they have lost the debilitating dips in their emotional states, this has come at the sacrifice of the joyful peaks. "I'm feeling less anxious, but I've lost the zest for life that I still had occasionally," said Robert, a 61-year-old retiree.

3. Cognitive behavioural therapy (CBT), while a somewhat proven scientific method, remains limited in its battle against anxiety. Its understandable reliance on process, while robust, often doesn't get to the heart of the matter or bring the promised relief, according to my clients. The source of the issue usually remains more deeply hidden. "I've been having counselling for six months, but I'm still anxious," said Wendy, a 44-year-old mother of three.

You may be suffering from anxiety with myriad individual responses such as hypervigilance, disrupted sleep patterns, obsessive compulsive disorder, social phobia, procrastination, panic attacks or a deep and profound stress.

I offer you something other than the suggestion that you are "suffering from a mental illness", with the stigma that this creates for you and those who are close to you.

I completely acknowledge that you are suffering from a debilitating condition and that your whole life is built around it. You have likely tried some forms of counselling, medication and support services, but nothing has given you the deeper answers that you seek. May I suggest to you that your "fight or flight" response is highly activated as a way for your subconscious mind to keep you safe. A warning system has been put in place through subconscious programming that infiltrates your conscious thought processes and your physiology and permeates your behaviours. While this warning system is powerful and effective, it has likely been put in place because of energy that has emerged in your life from your past in ways you may not recognise or even know about. It is likely that the warning system is now obsolete, though this logic is beyond the timelessness of the subconscious.

Healing the Subconscious Mind

The language of the conscious mind is *time*; the language of the subconscious mind is *energy*. It is the energy stored in the subconscious that is driving the system. Its source needs to be identified and released. Once this is done, the warning system structure can be collapsed and the conscious mind can relearn without the highly charged energy that characterises anxiety.

Let me summarise in a more simple way. A part of you is trying to keep you safe, but it has gone off-beam and you can't reason with it as you can't get to it. It is hidden behind the veil of the subconscious.

The traditional medical system has trouble dealing with this aspect as it doesn't readily recognise the incredible power of the subconscious through the traditional CBT approaches. Thus the government-supported mental health infrastructure does not include dedicated subconscious work. Over the years, I've found in my clients that anxiety is often "unreasonable", i.e., it can't be reasoned with, analysed, talked out or made to see

logic, all being aspects embraced through CBT.

Hypnotherapy as an alternative health modality can be a hidden jewel in the battle against anxiety as it offers a powerful approach. In the same way that a master surgeon enters the body to expertly move past arteries and capillaries to find and remove a tiny tumour that debilitates an entire physiology, a well-trained intuitive hypnotherapist can enter the subconscious to move beyond linear time to find the source of emotional debilitation and release the hold it has on a client.

Carl Jung, MD

Fascination with the subconscious is nothing new, having been the focus of indigenous shamans for thousands of years. In more recent times, it held the attention of Sigmund Freud, MD, (1856–1939) with his dream interpretation work and Carl Jung, MD, (1875–1961) with his theory of the collective unconscious. In fact, in a strange twist of fate, humanity's original healing modalities that were based on herbs, energy systems, body work and shamanic approaches are now seen as alternative or non-traditional medicine, even though they are many thousands of years old. On the other hand, allopathic or modern western medicine is seen as traditional medicine, even though by comparison it is still in its infancy.

There is an argument for scientific justification of medical approaches that are based on repetition and systemic reproduction under controlled environments, though I'd simply offer that every client I've seen over the years has their own unique story and circumstances and requires an individual approach to healing. While this may fail scientific scrutiny, people still get better—quickly.

Subconscious healing is not a process; it is an experience of discovery and insight that releases deep and profound issues, often beyond the line of sight of a client's conscious awareness. Clients can heal in a moment of blinding insight when they discover "consciously" that a particular trauma anchored energetically in the subconscious is the source of their highly activated fight or flight state.

What's the Source of the Energy?

The following are some conceptual ideas about the original source of clients' anxieties that over the years I've found form common trends. I also share stories I've heard that may offer insight to readers who are suffering from anxiety. I share them in the hope that your search for healing may embrace new territories that you haven't yet covered.

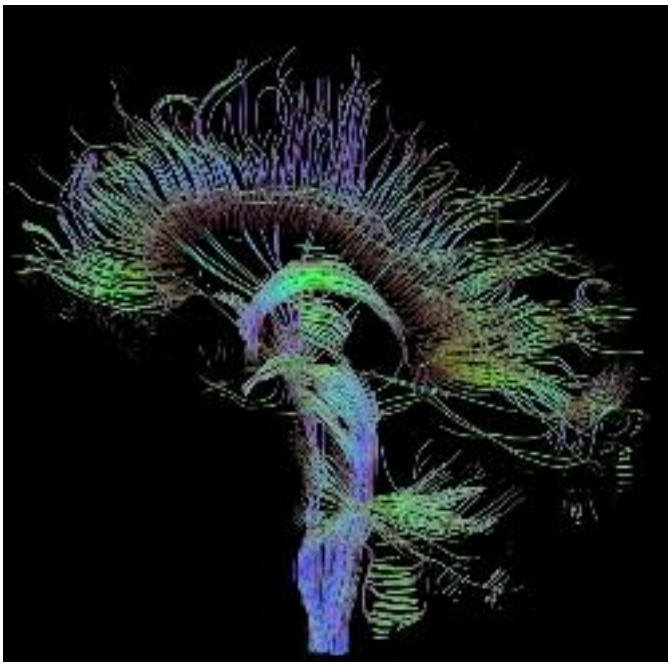
We all know that past trauma can bring anxiety, though I've found there to be various types of trauma.

1. There can be an elongated period of time under stress, such as a difficult childhood, an abusive relationship or a period of workplace bullying. This can result in generalised anxiety.
2. Clients can also suffer from a single trauma or a repeated series of trauma, leaving them in a state of hypervigilance, ready to be triggered when something somehow echoes the original source of the energy.
3. The hardest trauma to discover is when a small incident suddenly brings an overwhelming activation of previous incidents that have been dormant in the subconscious before this last incident becomes the straw that breaks the camel's back. In its final analysis, this is strong proof of the timelessness of the subconscious.

The most complex cases can involve an amalgamation of all three types of trauma.

These basic sources of trauma and subsequent anxiety are well known to mental health professionals at all levels. I simply offer that where some aspects of CBT do work well, there are a couple of simple things that for the main part go unacknowledged.

1. Anxiety is a *safety system*, not a mental illness. Anxiety is a *response* to trauma, and that energy of the trauma is held subconsciously, not consciously. Logically, we can then understand why anxiety doesn't always shift with talk therapies. CBT is done in the conscious state, that is, with beta brain-wave patterns, while the



Visualisation of neural pathways in the brain, taken using diffusion tensor imaging.

subconscious operates in the alpha or even theta range. This is why CBT can't always get to the trauma. To summarise, the trauma is subconscious so the anxiety is subconscious, too. It's the specifically crafted solution by the client's deeper self: it has to come from the same place, characterised by the same brain-wave patterns.

2. There is a way in which the energy of trauma is held when it lodges in the subconscious. Not only is anxiety held subconsciously, but it is held *energetically entangled between an event, a feeling and a belief* in a triangular format. This self-sustaining energy framework starts to form solutions and programs that counteract the trauma energy. We are, after all, a remarkable survival species. Sometimes we just soldier on and do the best we can in life, carrying our experiences with us. Trauma isn't fully released unless we address the original energy in which it was stored, which means that we have to search the energetic history of the client to locate the traumatic event(s) *and* then address the feeling *and* the belief.

Tim, now aged 29, was traumatised repeatedly by an angry father when he was small. His past was triggered when his new boss joined the firm, a man characterised by a short fuse and a booming voice, which he used often. Tim had a number of panic attacks at work before he sought help, as they had started to drift into his private life. In fact, one had emerged during the break-up with his girlfriend. In a deep trance state, Tim travelled back in time to again become the little boy facing his father as he held feelings of sheer terror and a belief that he was desperately unsafe. Little Tim was met by his 29-year-old self, who held him and made him safe, changing his beliefs around personal safety. We released the feelings and beliefs across all similar events, collapsing in minutes a safety system that had been carefully put in place over almost three decades. We matched the trauma held in alpha brain-wave patterns with subconscious healing in the same brain-wave state. Tim hasn't had another panic attack since, and he now lives a life without debilitating anxiety.

Trauma is held in the alpha wavelength, so the healing interventions need to be offered in the same wavelength...

We know that similar wavelengths of opposite magnitude cancel each other out. It's common practice with technology such as noise-cancelling earphones.[1] Again, the logic of healing is evident. Trauma is held in the alpha wavelength, so the healing interventions need to be offered in the same wavelength to match it.

Our All-Important Childhood Years

It is well known that our childhood shapes us for the rest of our lives. The so-called "formative years" is the period of time when we form our values and beliefs and start to build our self-view. It is seen as something like the first seven to 12 years of life, depending on your psychological model. During this period of time we are conditioned by our environment, by our role models whom we copy both consciously and unconsciously and by our experiences, though brain-wave patterns play an important role here once again. The subconscious mind is open throughout this period. Babies spend their time predominantly in the delta (sleep) range of brain-wave patterns. Between two to six years of age, children are more often in the theta range and then in the alpha range from six years. After 12 years of age, we are mostly in the conscious or beta state and the "subconsciously open" years are completed. This is why young children can learn so well, though it is also a way in which trauma can be effectively stored.

Dr Bruce Lipton articulates this phenomenon in his book *The Biology of Belief* (2005) where he states:

"…the fundamental behaviors, beliefs, and attitudes we observe in our parents become 'hardwired' as synaptic pathways in our subconscious minds. Once programmed into the subconscious mind, they control our biology for the rest of our lives…or at least until we make the effort to reprogram them."[2]

Bruce Lipton, even as a traditionally trained medical doctor, understands this critical aspect of how we

respond to our environments and this has been fundamental to his own remarkable work.

The Womb, where Consciousness is First Active

While our conscious memory may go back to our early childhood, our subconscious starts observing, recording and storing energy before we are even born. We are already assembling information and absorbing energy from whatever our mothers are experiencing. Again, this makes perfectly logical sense as we are completely connected by shared physiology, whether it be biologically, chemically or energetically and some would say psychically as well.

So many times over the years, I've found that anxiety originated in the womb and then gradually grew, event by event, through the formative years.

Cheryl, aged 38, was in a deep state of trance and travelled back in time to before she was born. When I asked how her mother was feeling, Cheryl replied that her mother was really anxious and worried about this, her first baby. When I asked how this affected her as the unborn child, Cheryl began to cry. She had been trying to help her mother and took on her anxiety as a way to share the burden. She had been carrying it ever since. We released the energy and the associated beliefs and feelings, and Cheryl was set free from her anxiety.

Dr Marcy Axness, a professor of prenatal development and an expert in parenting, offers this:

"If a mother is consistently filled with anxiety or stress during her pregnancy, the 'message' communicated to her baby (via stress hormones) is that they are in an unsafe environment—regardless of whether or not this is actually true. The baby's brain will actually adapt to prepare for the unsafe environment it perceives it is going to be born into!"[3]

This opens a whole new avenue of exploration in the battle against the anxiety epidemic. There are individual circumstances where it is literally true that he/she was "born anxious", though not everyone responds in this way. Again, it is down to the individual and how they respond uniquely to the energy they receive.

Intergenerational Trauma: Energenetic Lineage

The phenomenon of intergenerational trauma is starting to receive more attention. It is just possible that the trauma we hold in our being transcends generations as a type of energetic legacy of safety. The new field of *psychohistory* is concerned with group identity, the transmission of trauma across generations, processes of collective mourning and creativity.[4]

Dr Molly Castelloe, author of The Me in We blog at PsychologyToday.com, tells us:

"What is overwhelming and unnamable is passed on to those we are closest to. Our loved ones carry what we cannot. And we do the same.

"This is the subject of *Lost in Transmission: Studies of Trauma Across Generations*, edited by M. Gerard Fromm (2012). This collection of essays on traumatic transmission builds on the idea that 'what human beings cannot contain of their experience—what has been traumatically overwhelming, unbearable, unthinkable—falls out of social discourse, but very often on to and into the next generation as an affective sensitivity or a chaotic urgency'…

"…The child speaks what their parent could not. He or she recognizes how their own experience has been authored, how one has been authorized, if unconsciously, to carry their parents' injury into the future. In rising above the remnants of one's ancestors' trauma, one helps to heal future generations."[5]

Over the years, I've seen my own examples of this remarkable phenomenon.

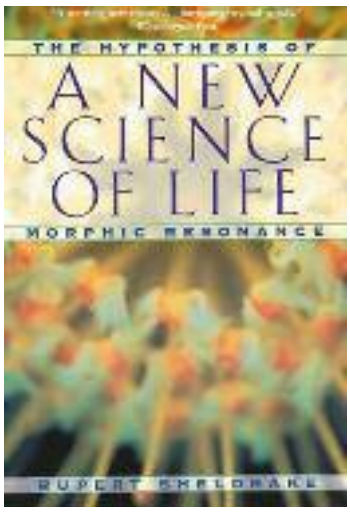
Dimitri, a 35-year-old business analyst, was off work for some time suffering from workplace stress. Counselling and medication weren't helping. As we probed the source of his condition, he told me a story about his grandfather. In World War II, his grandfather had been a tiny baby, living in a small village in Eastern Europe. Soldiers came through and took the entire population of the village to the large waiting room at the railway station. They were all then machine-gunned to death, except for the baby who became his grandfather. His mother had shielded her baby from the hail of bullets with her own body. Many hours later, passers-by on the nearby road heard a baby crying and discovered this tragic scene. Dimitri's grandfather was taken in by those kind people. Dimitri sobbed deeply as he told this story,

releasing the profound pain of two generations before him, the trauma of this family tragedy deeply ingrained in his being. It was a critical turning point in his healing.

I've come to call this phenomenon the *energenetic lineage*. Our parents come together to form us in more than just a mix of sperm, egg and shared DNA. While that may underpin physical procreation, our energenetic lineage is a combination of *quantum entanglement* and *morphic resonance*.

Dr Rupert Sheldrake first offered his hypothesis on morphic resonance in *A New Science of Life* (1981) and summarises it on his website:

"Morphic resonance is a process whereby self-organising systems inherit a memory from previous similar systems… The hypothesis of morphic resonance also leads to a radically new interpretation of memory storage in the brain and of biological inheritance. Memory need not be stored in material traces inside brains, which are more like TV receivers than video recorders, tuning into influences from the past. And biological inheritance need not all be coded in the genes, or in epigenetic modifications of the genes; much of it depends on morphic resonance from previous members of the species. Thus each individual inherits a collective memory from past members of the species, and also contributes to the collective memory, affecting other members of the species in the future."[6]



We also know from the laws of quantum physics that quantum entanglement means "that which has been connected stays connected". In other words, quantum particles form relationships that transcend time and space in a phenomenon that Einstein once referred to as "spooky action at a distance".

If we hold trauma from those who come before us, then surely we carry the energenetic solution, the safety system trialled over generations in the entangled energy field of our family lineage where the morphic resonance would be even stronger, bolstered by quantum entanglement. In short, anxiety can be inherited as the unconscious solution to intergenerational trauma.

Louise was in her 60s and eager to explore some lifelong blocks that stopped her from making decisions and caused a "stuckness" in her life. She found that any decision, at any level, resulted in anxiety. As we moved back along her energenetic lineage, we discovered some powerful beliefs in her paternal line. Four generations of men had taken safe decisions as a way to protect their families and keep themselves safe. As we moved through a gestalt-type process of sharing feelings and concerns, they came to realise that their beliefs were in fact holding back their descendants. When we released their anxiety and replaced it with courage, they then stood behind Louise to show loving support. When we turned to the maternal line, we found several generations of women who were keeping themselves invisible as a way to stay small and be safe. This, too, was released, sending waves of healing back through the generations and setting Louise free from her blocks.

Quantum Echoes across Time and Space

The belief system of a therapist is critical to a client's healing. If we place our own barriers and beliefs on a session, we often won't find the deeper layers that may be lying close by in a multidimensional and metaphysical landscape. Simply put, we are multidimensional in our real state of being, as anyone who has had a near-death experience, witnessed a paranormal phenomenon or had an out-of-body experience will readily confirm.

In chasing down the source of anxiety, I've witnessed

clients talk about energy coming from alternate selves in other realities—a firm fit with many aspects of quantum physics and my own investigations into quantum consciousness in recent years.

I've heard clients share what appear to be past-life imprints in line with the theory of reincarnation—a theory expertly investigated by Ian Stevenson, MD, of the University of Virginia.[7] Since his passing in 2007, his research has been continued by others.

Sometimes we discover a pattern of trauma across multiple lives which can be released in a deeper state of trance according to the Life Between Lives® methodology, brought to the world by Dr Michael Newton and his 7,000 client cases.[8]

I acknowledge that these layers are outside most people's thinking. However, we've reached a point in the battle against anxiety where we need to consider more creative solutions.

Ultimately, an energetic disorder such as anxiety may have multiple layers that echo who we truly are. We simply must have the courage to follow where we need to go in order to find the source, and in so doing we may uncover much more about ourselves and even about where we fit into the landscape of an ever-unfolding universe.

A Message for People with Anxiety

One of the challenges for people suffering from anxiety is how to start to feel safe in a world that we are continually told is not safe. Mainstream media stories are permeated with the threat of terrorism, potentially widespread epidemics such as Ebola (and there were several before that) and a view of the modern world torn apart by war and crime. News broadcasts, television programs, movies and even computer-based games echo these themes.

I often ask clients who present with anxiety how they build purpose and inspiration into their lives to balance these other energies. When you feel unsafe, you are even more vulnerable to the fear-mongers, though we don't have to listen to them. We have a choice.

There's a part of you that is trying to keep you safe. This part of you may have been there for a long time or a short time; it may be simple or complex, though it has the pure intention to be of service to you.

Look deeper and further for the source of what you are experiencing, and those answers lie within. You don't have to live with the debilitating energy of this for the rest of your life.

When you find your personal and unique solution, tell your story and help others. That will transform your difficult journey into a source of inspiration for others, and you will have found purpose. ∞

About the Author:

Peter Smith is the founder of the Institute for Quantum Consciousness and is based in Melbourne, Australia. He created the modality of Hypnoenergetics® to bring new approaches and models to the therapeutic application of hypnotherapy. Peter has been President of The Newton Institute For Life Between Lives® Hypnotherapy since 2009. He has been interviewed on a variety of television and radio programs and has contributed to a number of documentaries. Peter is the author of *Quantum Consciousness: Expanding Your Personal Universe*, reviewed in NEXUS vol. 22, no. 6, October–November 2015. His article titled "The Hidden Realities of Our Consciousness" was published in NEXUS vol. 23, no. 3, April–May 2016. He was a speaker at the 2015 and 2016 NEXUS Conferences.

Peter Smith can be contacted by email at peter.smith@westnet.com.au. For more information about research, training, workshops and events, visit http://www.instituteforquantumconsciousness.com.

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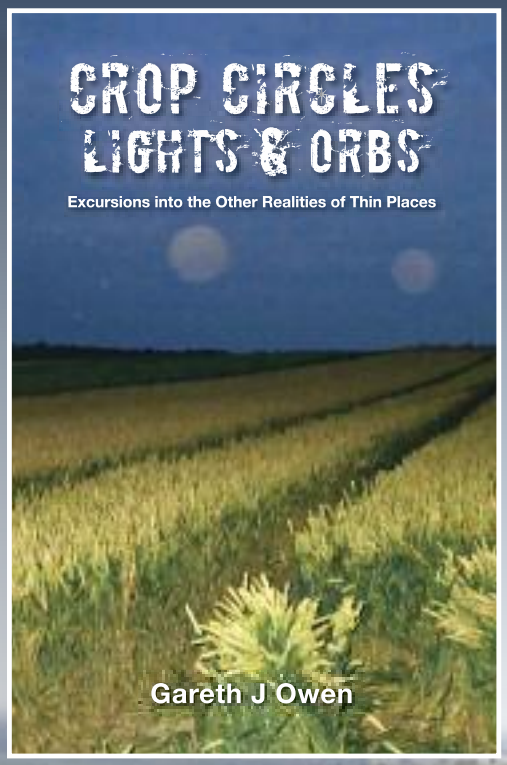

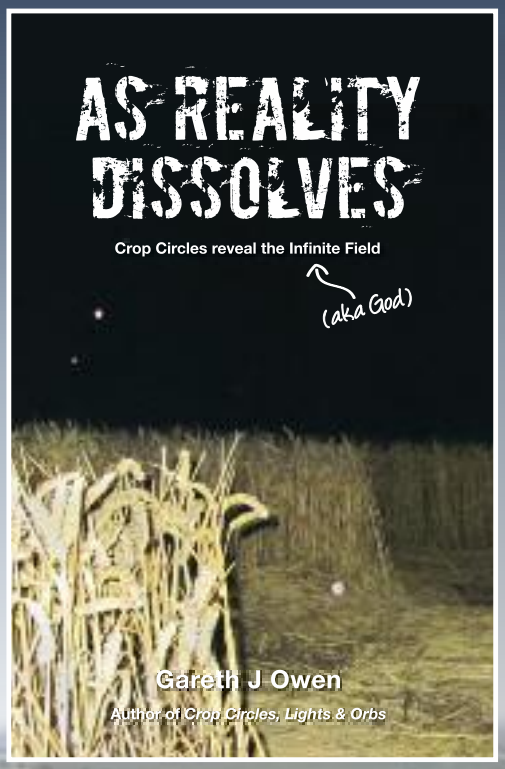

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CONTACT WITH NON-HUMAN INTELLIGENCE AND THE QUANTUM HOLOGRAM THEORY OF CONSCIOUSNESS: Towards an Integration of the Contact Modalities

by Reinerio Hernandez, JD
Robert Davis, PhD
Jon Klimo, PhD
Rudolph Schild, PhD
Claude Swanson, PhD
FREE © 2016–17

Abstract

This study, conducted by the Dr Edgar Mitchell Foundation for Research into Extraterrestrial Encounters (FREE), represents the first comprehensive multi-language investigation of individuals who have reported to have had unidentified flying object (UFO)–related contact experiences with non-human intelligence (NHI).

Our research methodology utilised two comprehensive quantitative surveys totalling more than 600 questions administered to 3,057 subjects. This study addressed several topic areas which included a diverse range of physical, psychological, perceptual and anomalous aspects of claimed contact experiences.

The results revealed complex interactions with perceived NHI that involve physical changes, altered states of consciousness and paranormal experiences.

What may be the most significant aspect of the results is that over 85 per cent of the study population claimed to have had very similar, major, positive behavioural transformations as a direct outcome of their UFO-related contact experience(s) with NHI.

The Quantum Hologram Theory of Consciousness (QHTC), which explains the nature of our reality and nonordinary states of consciousness, may provide the foundation for understanding the interrelationship between the various "contact modalities" (e.g., UFOs, near-death experiences (NDEs), out-of-body experiences (OBEs), telepathic communication, channelling, remote viewing, orb sightings, etc.) within a multidimensional reality.

1. Introduction

The FREE Experiencer Research Study is the first comprehensive research study of individuals who have had contact experiences with a UFO and associated NHI. More specifically, this study represents the first combined quantitative and qualitative analysis of a large population, both multi-language and cross-cultural, which addresses numerous topic areas associated with the UFO contact phenomenon.

All subjects in this study reported via conscious explicit memory to have observed a UFO and had physical- or telepathic-based contact with one or more forms of NHI. The primary objective addressed in this study pertains to the reported nature and incidence of physical, psychological, paranormal and perceptual UFO and NHI "contact experiences".

The FREE study paradigm is not similar to the traditionally applied physical "nuts and bolts" research approach of ufology investigators. Instead, it addresses a diverse range of perceptual and nonordinary conscious-based interactions associated with reported UFO and NHI contact experiences. More specifically, the quantitative survey results and associated discussion addressed in this paper represent the first in a series of articles by the FREE. The results and analysis of the qualitative results from our ongoing study, which is in the process of collection and analysis from a subset of subjects who participated in our survey, will be presented in subsequent papers.

Combined, both the quantitative and qualitative results from the same large database of "contact experiencers" should help to provide a more comprehensive and informative representation of this phenomenon. Collectively, the results as explained by the QHTC may offer important implications in regard to the nature of this reported experience and possibly even consciousness and reality itself.

The so-called "alien abduction" narratives have inspired much theoretical speculation but experimental research has been scarce. This phenomenon is grounded in personal human experiences deemed extraordinary by witnesses themselves.

Historically, several academics took the study of UFOs seriously and regularly engaged with ufologists, including astronomers and astrophysicists Drs William Hartmann, J. Allen Hynek, Donald Menzel, Carl Sagan and William Powers, physicists Drs James McDonald and Peter Sturrock, computer scientist Dr Jacques

Vallée, psychologists Drs David Saunders and Leo Sprinkle, and sociologist Dr Ron Westrum. Among these individuals, however, opinions about the phenomenon have differed sharply. For instance: McDonald firmly believed that evidence points to the extraterrestrial origins of UFOs; Hynek considered that UFOs warrant serious scientific investigation but questioned alien abductions; Vallée emphasises the psychosocial dimensions of UFO sightings; and Sagan considered "alien" visitation improbable but communication with extraterrestrials within the range of the possible.

Curiously, based on years of research as lead science officer of several UFO-based US Air Force investigations, Dr Hynek concluded: "I hold it entirely possible that a technology exists that encompasses both the physical and the psychic, the material and the mental."

Given this brief historical context, according to the QHTC, as articulated by FREE co-founder Dr Edgar Mitchell, we live in a multidimensional reality and within this construct humans are having contact with NHI in multiple formats or "contact modalities" (e.g., UFO-related contact and contact via NDEs, OBEs, hallucinogenic substances, mystical meditation travel, channelling, remote viewing, sightings of spirits/ghosts and orbs, and other reported human encounters with NHI).

In the QHTC, all of these "contact modalities" are not separate phenomena but instead are part of one interrelated phenomenon. In the QHTC, contact with NHI is viewed as a complex phenomenon that potentially can be explained by the physics of an all-pervasive multidimensional quantum hologram.

Consequently, the QHTC is a proposed framework in modern physics that can encompass the physical as well as the psychic, spiritual and other so-called "paranormal" aspects of contact with NHI, among other unexplained experiences (e.g., NDEs, OBEs, telepathy, the paranormal, etc.).

The primary concern addressed in this study pertains to the incidence of responses from a large sample of UFO experiencers (N = 3,057) who reported that they have conscious explicit memory of interactions with forms of NHI associated with a UFO. While no firm conclusion can be made, one theory advanced that may possibly explain the nature of this experience is the quantum hologram reality of spacetime, as represented by the QHTC.

It is important to note, however, that the FREE does not claim to be able to provide a rationale for this phenomenon. The intention is simply to propose ideas and a possible rationale to facilitate discussion, consideration and continued multidisciplinary research in this arena. This is just an initial step in a long process to better understand what governs and regulates this phenomenon.

It is hoped that this paper will help others to assimilate the FREE study results in order to better understand and interpret a unique and profound personal event(s) which often facilitates pronounced behavioural and spiritual effects in contact experiencers.

At the very least, the results may serve as a foundation for other researchers to interpret, debate and build upon through subsequent research in order to gain greater understanding of a unique and transformative experience shared by many thousands if not millions of individuals worldwide who are yearning for an answer.

Appendix

The following topic areas and associated results represent a summary of findings from the extensive database (N = 2,990) in Phases 1 and 2 (600 questions) of the FREE English-language survey.

3.1. Phase 1

- 2,075 individuals have seen a UFO and 63% had witnesses to this sighting;
- 1,437 have physically seen an NHI being;
- The top two types of NHI seen are energy beings (55%) and human-looking beings (52%);
- 49% reported family members having contact with NHI;
- The majority of experiencers have seen NHI more than 10 times;
- 95% have had some type of paranormal experience;
- 66% stated that another member of their family has had one or more paranormal experiences;
- 1,636 or 55% have received "telepathic" messages or thought transferences from NHI;
- Of these, 1,010 or 62% have received downloads of advanced science, physics and technology;
- 46% have experienced "missing time"—a large gap of time that's unaccounted for.

3.2. Phase 2

- 85% of these contact experiences with NHI were stated to be "positive";
- 85% have undergone major transformations for the positive (more spiritual, compassionate, loving, psychic; understanding of

self and purpose in life; more concern for the environment; less egotistical, less concern for monetary values, etc.);

• 67% or 1,175 individuals have had an out-of-body experience;

• 30% or 530 individuals have had a near-death experience;

• 39% or 676 individuals have reported a medical healing by NHI;

• 70% or 1,223 individuals have reported receiving "telepathic messages" from NHI;

• 39% or 680 individuals have had conscious contact with NHI outside of their body;

• 48% or 846 individuals have had memories of a past life;

• 57% or 995 individuals have seen a ghost/spirit;

• 30% or 519 individuals have had contact with NHI during an OBE;

• 57% or 998 individuals believe that NHI is connected with the afterlife/spirit world;

• 50% or 868 individuals believe that NHI is connected to reincarnation;

• 71% agreed with the statement, "In my opinion, the widespread occurrence of experiences with unidentified entities is part of a larger plan to promote the evolution of consciousness on a species-wide scale";

• 70% agreed with the question, "Did you feel a sense of expanded consciousness in the presence of these unidentified entities?";

• 56% or 978 individuals have seen small multicoloured orbs;

• 39% or 687 individuals have "conscious" memories of being aboard a UFO craft;

• 31% or 547 individuals believe they have participated in an alien breeding program.

3.3. Visual Contact with NHI

Of the 1,437 individuals who reported to have physically seen NHI, 63% said they witnessed the NHI, 72% interacted with the NHI and of these 85% interacted with the NHI more than once and 54% saw the NHI more than 10 times.

3.4. Quality of Experiences with Different NHI associated with UFO Contact

• 55% saw Energy Beings: 6.7% negative, 70% positive, 23% neutral experiences;

• 52% saw Human-looking Beings: 5% negative, 61% positive, 34% neutral experiences;

• 50% saw Small Greys: 11.5% negative, 28% positive, 60.5% neutral experiences;

• 47% saw Spirit/Ghost Beings: 7.4% negative, 46% positive, 53.4% neutral experiences [*sic*];

• 34% saw Tall Greys: 12.4% negative, 32% positive, 55.6% neutral experiences;

• 26% saw Hybrid Beings: 6.3% negative, 47% positive, 46.7% neutral experiences;

• 25% saw Reptilians: 23% negative, 17% positive, 60% neutral experiences;

• 21% saw Mantid Beings: 9.5% negative, 31% positive, 59.5% neutral experiences;

• 14% saw Small Animal Beings: 5.8% negative, 36% positive, 58.2% neutral experiences;

• 13% saw Tall Animal Beings: 9.6% negative, 32% positive, 58.4% neutral experiences.

In summary, 85% of the subjects stated that their contact with NHI was "positive", 84% did not want their contact experiences with NHI to stop, and only 9.7% believed the NHI were bad or malevolent. Additionally, 62% stated that the NHI "helped them", 71% felt "expanded consciousness" in their presence, and 66% perceived love from these beings. In contrast, only 15% claimed that their experience with NHI was mainly negative.

3.5. Telepathic Messages

• 1,636 or 55% have received "telepathic" messages or thought transferences from NHI;

• Of these, 1,010 or 62% have received downloads of advanced science, physics and technology;

• 53% of these telepathic messages contained a vision, a video or a picture;

• 75% of these communications were in the experiencer's native language;

• 60% have received telepathic messages on more than five occasions;

• Nature of telepathic messages:

➢ 68% contained personally relevant information for the individual;

➢ 62% pertained to advanced science, physics or technology;

➢ 51% pertained to spiritual or religious issues;

➢ 51% were philosophical or metaphysical;

➢ 47% were other types of information;

➢ 45% concerned human behaviour;

➢ 33.7% were social-political;

➢ 26% concerned advanced physics.

3.6. Contact while Out of Body

• 659 have had contact with NHI when their consciousness was out of their body;

• 66.6% said that their "consciousness was separated from their bodies";

• 584 "saw" these types of entities during this OBE experience: 45% Human-looking; 38.3% other type; 35.6% Spirit-looking; 21% Short Grey; 15.4% Tall Grey;

• 56% stated that their "thoughts were sped up";
• 75% stated that their "senses were more vivid than usual";
• 49% stated that in this reality "time stopped or was slowed down";
• 54.5% stated that they "felt united or one with the world";
• 38% stated that they "suddenly seemed to understand everything about the universe";
• 83% stated that this experience was "as real or normal as speaking with a family member next to you";
• 393 or 60% have had an experience with a "Council" of different NHI.

3.7. Paranormal Experiences

• 1,700 have had "paranormal" experiences in their home;
• 1,950 or 81% who took our Phase 1 survey have had an OBE;
• 37% who took our Phase 2 survey have had an NDE;
• 76% have seen a ghost or spirit;
• 67% have had a past-life memory;
• 47% have met and conversed with a deceased person;
• 29% have channelled NHI;
• 49% have seen their body out in space leaving planet Earth;
• 45% have memories of visiting what is called "the spirit world";
• 941 individuals have physically seen an orb; 66% of these orbs were seen in their home;
• 47% have seen what can be considered "shadow people" in their home—beings who look cloudy human-like and streak across their home;
• 60% have repeatedly experienced objects moving in their home without logical explanation.

3.8. Medical Healing

Of the Phase 2 respondents, 39% or 676 individuals responded that NHI performed a "medical healing" on them or a member of their family and 16.5% were specifically told by NHI that they were medically healed by them.

3.9. Spirituality and the Spirit World

• 82.5% said they believe there is a connection between NHI and "the spirit world";
• 89% saw a connection between NHI and "the paranormal";
• 75.4% felt there is a connection between NHI and reincarnation;
• 26% received a message about reincarnation;
• 31% were given a message about God;
• 30.2% were told about "the death process" and "the spirit world" by the NHI.

3.10. Psychological and Physical Changes

• 68% reported to have become more sensitive to other realities;
• 56% became more psychic;
• 50% began to feel energy in their hands;
• 48% said that their ability to learn increased;
• 46% experienced a flood of information that they could not process;
• 61% became more telepathic with others.

3.11. Psychological Profile Changes

Following their contact experience(s), over 85% of the subjects reported that one or more of these psychological attributes "strongly increased":
• concern with "spiritual" matters;
• desire to help, love and tolerate others;
• compassion for others;
• appreciation of the ordinary things in life;
• insight into the problems of others;
• concern with the welfare of planet Earth;
• understanding of what life is all about;
• concern with ecological matters;
• conviction that there is life after death;

Characteristics which "strongly decreased" include:
• concern with the material things in life;
• interest in organised religion;
• fear of death.

3.12. How did Contact with NHI Change your Life?

• 4.3% reported a "highly negative effect" on changing their life;
• 6.7% reported a "slightly negative effect";
• 16.5% reported a "neutral effect";
• 21.7% reported a "slightly positive effect";
• 50.9% reported a "highly positive effect".

3.13. Experiences on Board a UFO Craft

Thirty-eight per cent (N = 667) of Phase 2 respondents reportedly have "conscious" memories of being on board a UFO craft. Of these, 57% stated that they had contact with NHI on the craft.

As for the types of beings they encountered, 48% said the contact was with a Human-looking Being, 44.6% with a Small Grey, 33.7% with a Tall Grey, 20% a Hybrid, 14% a Mantid, 12.7% a Reptilian, 9% a Spirit form, and 31% said "other".

Furthermore, of these 667 individuals:
• 7% reported walking onto the craft, 31% said they were

Continued on page 84

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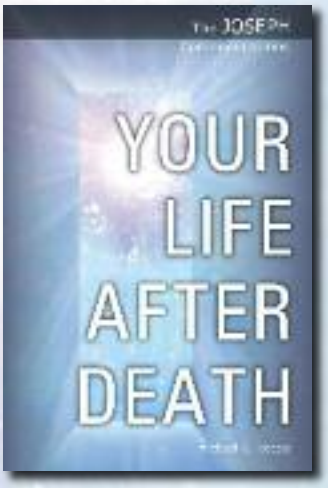

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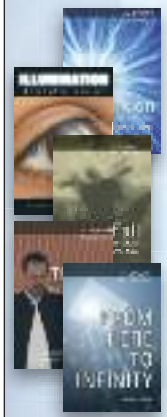

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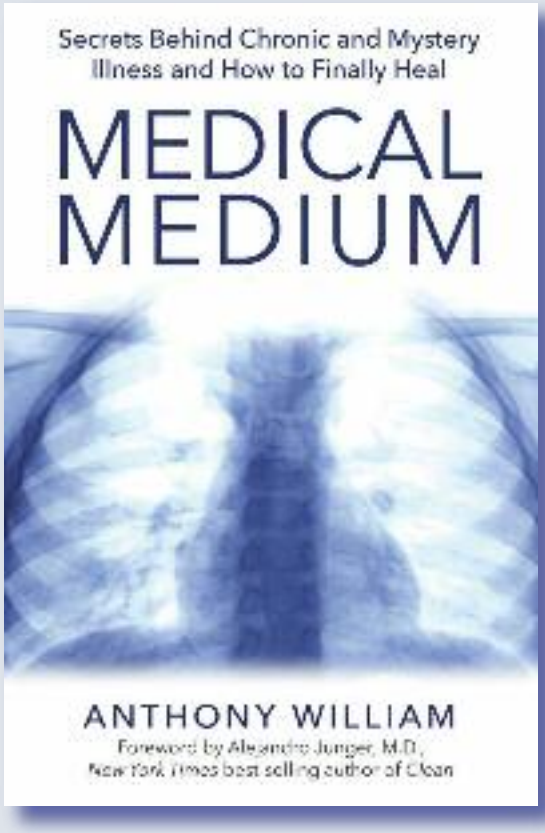
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SUPER SLIM
by Keith Foster, FLS
SAGAX, Monmouth, UK, 2016
ISBN 978-0-9532407-6-0 (152pp)
www.keithfoster.co.uk

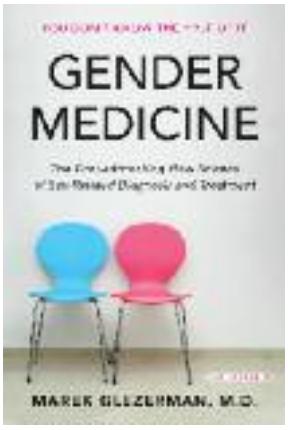
The obesity epidemic is causing millions to endure ill health and have shorter life-spans. To the rescue comes polymath and natural philosopher Keith Foster, who at 75 is a picture of good health (see *The Answer to Cancer*, 24/01). His advice is based on understanding the body's biochemistry and how humans have evolved over time.

We need to avoid processed foods and eat alkaline foods that are raw, fresh and organic, take essential supplements and do moderate exercise. As he explains, the bloodstream, in an effort to stay alkaline and oxygenated, deposits fat into storage, but this fat contains toxins. Foster recommends taking active charcoal (not the industrial, activated form), which not only binds and removes toxins but aids digestion, helps weight loss and can even remove cellulite. Other key supplements for good health, anti-ageing and longevity include iodine, selenium, vitamin C (sodium ascorbate), vitamins E and D_3 as well as mineral-rich salt. Sunlight on the skin also helps weight loss as it promotes production of vitamin D_3 that assists the cellular DNA. He includes lists of alkaline foods and the acidic foods to limit in our diets. These practical tips can make a positive change to our health.

GENDER MEDICINE
by Marek Glezerman
Duckworth Overlook, UK, 2016
ISBN 978-0-7156514-5-2 (266pp)
www.ducknet.co.uk

There are obvious differences between human females and males, but so often these are ignored in clinical research, drug trials, diagnoses and treatments. Enter the relatively new field of gender- and sex-specific medicine (GSSM), championed by retired Israeli professor of obstetrics and gynaecology Dr Marek Glezerman. He notes that biological variations have been hardwired in our evolutionary history as our roles have led to physical adaptations. But because the human body has also adapted to the needs of our modern societies, it's imperative to consider the social-environmental conditions that affect women and men, girls and boys, differently.

In his discussion, Dr Glezerman looks at foetal programming from the gender angle with reference to genetics, epigenetics, the intra-uterine hormonal environment and emotional stress, which have health implications into the future. He also analyses gender differences relating to the heart, gut and reproductive system, pain and pain medications, and temperature regulation. He explores gender aspects of the doctor–patient relationship and new directions in gender medicine. His observations need to be taken on board by all health care providers.



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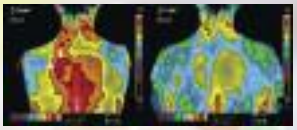
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THE YO(U)NIVERSE PARADOX:
by John Ferris
Balboa Press, USA, 2016
ISBN 978-1-5043-5915-3 (190pp)
www.revealthemystery.com

The death of his daughter Robyn from illness at age seven was a turning point for Irish engineer John Ferris. He set out to find answers to the fundamental questions of life—questions about why there is so much chaos and conflict between nations, within societies, and between and within individuals. These paradoxes, he sensed, are built into the system that we take for granted in our lives. Although he went through times of isolation and desolation, he came to understand that nothing can be lost because it has nowhere to go anyway. In other words, the "nowhere" is really "now here".

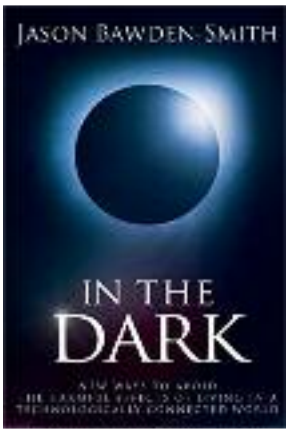
Ferris determined how all these paradoxes come about through the law of opposites feedback loop. It allows the seemingly contradictory worlds of science and spirituality to merge; indeed, they're two sides of the same coin. He looked into hidden patterns of reality, quantum dynamics, holofractographic theory and the spiritual view that all is connected. He concludes that when we realise that we mentally create space and time, that our perceptual world is composed of the electromagnetic field, and that creation is bound by love, we can make a quantum leap in our consciousness. This is inspirational advice for those searching within.

IN THE DARK
by Jason Bawden-Smith
Major Street Pub., Australia, 2016
ISBN 978-0-9945424-6-5 (194pp)
www.nexusmagazine.com

Environmental scientist and entrepreneur Jason Bawden-Smith had an academic career and worked with New South Wales Health before setting up his own environmental technology companies (www.jbstech.com.au). He only woke up to the dangers of particular electromagnetic frequencies a few years ago when he realised that they were playing a major part in his health woes.

Studying the research of top EMF scientists, he healed himself and went on to write this book. In it, he explains the deleterious effects of artificial light while touting the benefits of natural, full-spectrum light. He details how we're being "electri-fried" by EMF waves from Wi-Fi, mobile and cordless phones, smart meters, microwave ovens and other devices and technologies. These waves cause breaks in our DNA and open voltage-gated calcium channels, resulting in oxidative stress and inflammation.

Bawden-Smith says that industry and government authorities are not responding well to findings about the dangers of this non-ionising radiation, but he sees hope that entrepreneurs can develop EMF-combating systems to stay ahead of the new devices emitting stronger radiations that will hit the market in the coming years. He gives tips on protection from the EMF onslaught, and having tested umpteen EMF shielding devices he concludes that Blushield and Quantlet technologies offer the best defence. He's now launched an education platform, EMF Warriors, with world-renowned experts. His book has apt advice for overcoming electrosensitivity and improving wellbeing.



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THE NEW HUMAN
by Mary Rodwell
New Mind Pub., Australia, 2016
ISBN 978-0-9807555-1-0 (381pp)
www.nexusmagazine.com

In this follow-up to her 2002 book *Awakening* (10/03), Mary Rodwell expands on the theme of amazing ET contact experiences reported by children and young adults and also relayed by teachers, scientists, medical doctors and psychologists. A clinical hypnotherapist and counsellor, Rodwell established the Australian Close Encounter Resource Network and co-founded the Foundation for Research into Extraterrestrial Encounters (see Strange Times in this issue).

Rodwell has noticed a difference with the newest generation of star-seed children: they're less fearful than the early Indigo kids and more able to embrace their experiences because they have an even broader multidimensional lens. There's now also evidence to suggest that this phenomenon has intergenerational aspects. These children are "the new humans" on a mission to raise humanity's consciousness beyond our limited 3D reality and awaken us to our true heritage, as they have a connection with intergalactic intelligences. They tell of travels on spaceships, advanced instruction on other planets, past lives and out-of-body experiences, teleportation, precognition, the true nature of our DNA, human–alien hybrid status and interactions with various alien species, off-world technologies from stargates to portals, and more.

Rodwell is convinced that an unprecedented paradigm shift in human evolution is underway. Though there are dark forces that would suppress it, as many of these kids realise, she believes that this enlightened path is unstoppable.

THE SEARCH FOR EXTRA-TERRESTRIAL LIFE IN THE UNIVERSE
by Obaidur Rahman
Sleek, Dhaka, Bangladesh, 2015
ISBN 978-984-33-8233-7 (204pp)
http://tinyurl.com/gsj9kde

The question "Are we alone in the universe?" is addressed here by Bangladeshi author Obaidur Rahman. He begins by discussing mainstream thought on astrophysics before considering evidence for visits to Earth by extraterrestrial beings in rock art, legends, religious texts and mediaeval paintings as well as in modern UFO literature.

Rahman traces the ancient Greek "plurality of worlds" model through to 20th-century space explorations and new findings about far-distant stars orbited by planets that may be compatible with life as we know it. He looks into the myths that ancient cultures developed to explain the workings of the cosmos. He then extends his purview to the Earth's geological ages and their still anomalous features regarding the evolution of life, up to modern attempts to create life in the lab and theories that suggest how life was seeded on our planet.

In exploring that age-old question, Rahman reviews the Drake equation that estimates the probability of ET civilisations in our galaxy and universe, and the possibility of interstellar space travel with antimatter rockets in the future.

ET conspiracy theories abound while the truth is still out there, and Rahman suggests that our search to make sense of the mysterious is what makes us human. He looks forward to the day when we can be truly responsible citizens who have earned the right to be part of the cosmic brotherhood.

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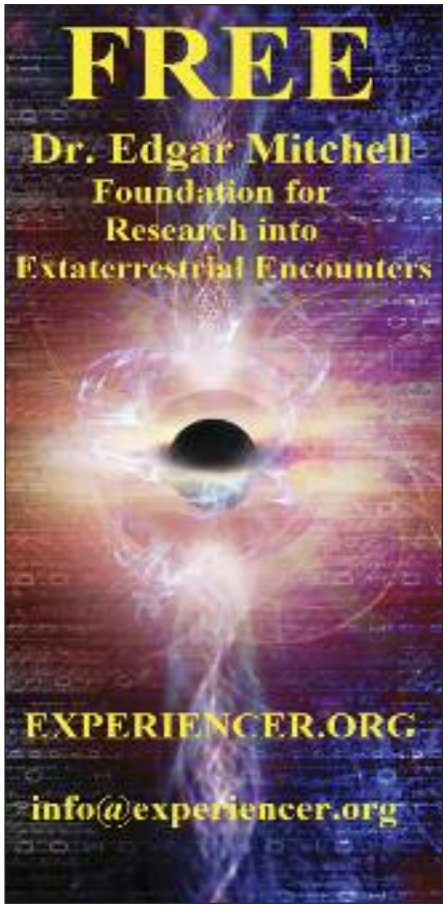


SCIENCE FOR HERETICS
by Barrie Condon
Hartley and Truro, UK, 2016
ISBN 978-1-534820-58-6 (464pp)
www.Amazon.co.uk

Just because you think you don't understand something in maths, science or medicine doesn't mean that you're ignorant: you may in fact have an intuitive sense that such edicts are based on false assumptions and "articles of faith".

A retired medical scientist with degrees in physics, oceanography and nuclear medicine, Barrie Condon dissects the shaky bases upon which key disciplines have been built, from the viewpoints of the Believer, the Sceptic and the Heretic. He asserts that so many notions that we take to be true, even laws of the universe, cannot be proved, are just plain wrong or cannot explain the complexity of life in reductionist terms.

We place too much emphasis on theory while discounting common sense that comes from observation and experience. We assume that all things of a kind are identical. We have flawed beliefs (or have them inflicted upon us) about objects whose existence can't be verified, such as black holes, dark matter/energy and wormholes. We ignore obvious evidence that good hygiene and sanitation improved health before vaccines and drugs came along, and are fooled that psychiatry can get a grip on the mind when we don't even know where the mind comes from. We think that we understand evolution and climate change but without studying their long time-scales; instead, we rely on models that can't encompass the physical world.

Condon also scrutinises scientific endeavours that carry huge risks, even extinction possibilities, such as atomic and biological weapons and the Large Hadron Collider whose physicists just make up theories as they go. His book is entertaining, informative and thought-provoking.

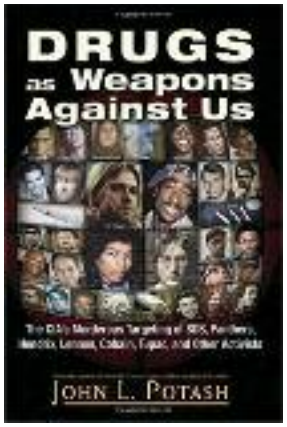
THE GOLDEN NUMBER
by Matila C. Ghyka
Inner Traditions, VT, USA, 2016
ISBN 978-1-59477-100-2 (434pp hc)
www.InnerTraditions.com

Known as the golden mean, the golden section and the divine proportion, *phi* is the geometric ratio that's approximated to 1.618 and derived from the Fibonacci series. This proportion is found in the spiral patterns of sea shells and flower petals and even in the human face. An especially beautiful ratio, *phi* is an intrinsic aspect of what we call sacred geometry.

Now, a seminal text on the subject, first published in French in 1931, has been translated into English. Written by Prince Matila Costiesco Ghyka (1881–1965), a Romanian mathematician, historian, philosopher and diplomat, *The Golden Number* addresses the importance of this divine proportion in architecture, art and music and taps into the spiritual nature of beauty, harmony and love that connects all of creation. This knowledge has been passed down to us via the ancient Egyptian–Pythagorean–Platonic lineage, and was preserved in Gnostic traditions, mediaeval guilds and secret societies through the centuries.

Included in Ghyka's study are rites and rhythms, incantations and initiations. Such esotericism can be seen in the then emerging quantum view as well as his era's political movements. His diagrams and archival pictures help us in grasping the magic and power of *phi*.

DRUGS AS WEAPONS AGAINST US
by John L. Potash
Trine Day, OR, USA, 2015
ISBN 978-1-937584-92-4 (430pp)
www.TrineDay.com



The use of illicit drugs to control populations has a long history. In his explosive book, activist and addiction counsellor John Potash begins his analysis with the Opium Wars, when powerful families built their fortunes by subjugating the people of foreign countries. As he explains, British intelligence had a long head start on America's CIA and helped the agency with mind-control programs through the Tavistock Institute. The CIA's predecessor, the OSS, along with the British, had help from Nazi scientists who dosed prisoners with the newly discovered synthetic drug LSD and ensured that earmarked Nazis were recruited for their own programs. LSD became a new tool of social control for the super-rich who used whatever they could—opium, heroin, cocaine—to quell left-wing political activism, human rights and social justice movements.

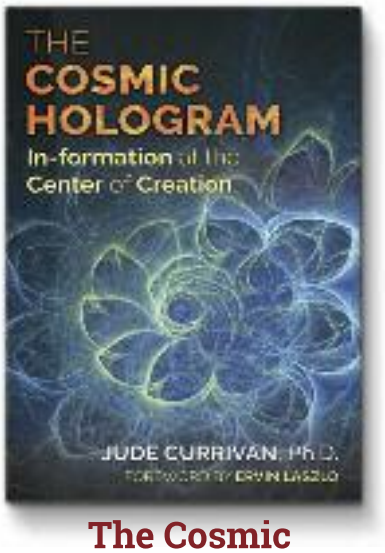
One technique of the controllers was to influence the masses through musicians, writers, political campaigners and celebrities. LSD was well known to cause psychosis, personality dysfunction and apathy, so it made sense to use undercover agents to supply LSD and other drugs in liberal doses. CIA asset Timothy Leary indeed encouraged people to drop out—to drop any expectations that they could change the status quo. Many activists for peace, racial equality and social justice suddenly weren't so interested in protesting. Artists from Elvis Presley, John Lennon, Janis Joplin and Jimi Hendrix to Bob Marley and Kurt Cobain were drugged, framed and murdered. Black Panthers, Latin American revolutionaries and even Occupy protesters were targeted. Potash exposes the sordid details of this ongoing covert war on the masses.

THE GREAT BREXIT SWINDLE
by T. J. Coles
Clairview Books, UK, 2016
ISBN 978-1-905570-81-2 (162pp)
www.clairviewbooks.com

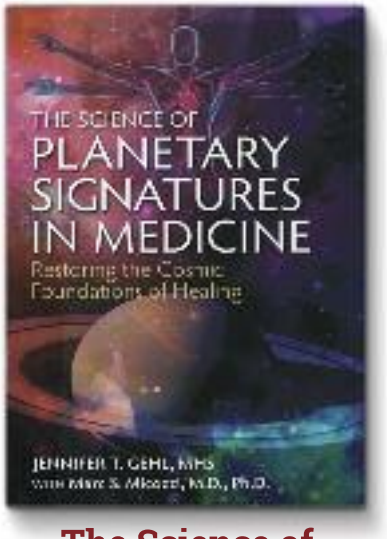
The vote for Britain to leave the European Union played into the hands of neoliberal internationalists, argues peace researcher T. J. Coles. The Leave campaign, says Coles (*Britain's Secret Wars*, 23/05), was hijacked by the mega-rich, free-marketeers and financial traders who see more opportunities for deregulation, privatisation and globalism by *not* staying in the EU. The pro-Brexit elites persuaded sufficient numbers of the British public that leaving the EU would result in less immigration to the UK, yet the end result will be that entry of foreign workers will be stepped up and British workers will be forced increasingly to compete with the working poor of developing nations as the UK is able to enter into more "free trade" agreements.

The real reasons for the Brexit move, in Coles's view, are: the UK follows America's lead on most issues, and the US regards the EU as a barrier to corporate profits; the massive London-based hedge fund industry would benefit from a deregulated UK free from EU links; and the UK would achieve more by being able to make trade and investment deals if not tied to the EU. Brexit, Coles says, fulfils the agenda of powerful, wealthy elites who also have expansionist military plans. Class warfare is still alive and going strong in the new Britain.

– NEW RELEASES –



The Cosmic Hologram
Jude Currivan, Ph.D.
$29.99 • Paperback • 272 pages
ISBN 978-1-62055-660-3



The Science of Planetary Signatures in Medicine
Jennifer T. Gehl, MHS with Marc S. Micozzi, M.D., Ph.D.
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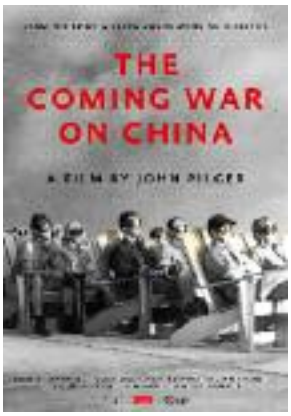
FILM

REVIEWED BY RICHARD GILES

TRACE AMOUNTS: Autism, Mercury and the Hidden Truth by Shiloh Levine and Eric Gladen
FAZE Films, USA, 2015 (97mins)
http://traceamounts.com

In the past 20 years, the rate of autism in children has jumped from one in 10,000 to one in 68, and the scientific community is no closer to pinning down the cause. *Trace Amounts* tracks engineer Eric Gladen's painful journey with mercury poisoning that he believes resulted from a thimerosal-loaded tetanus shot. After his recovery, Gladen began researching what had made him so ill. His quest led him into one of the biggest medical debates of all time: whether or not childhood vaccines cause autism. He quit his job to travel around the USA, interviewing experts and piecing together thousands of studies and leaked documents.

Soon Gladen shifted his focus to mercury in vaccines. Mercury was well known to cause neurological and physical damage, so why did it end up in vaccines? *Trace Amounts* explores this question and exposes the greed-based decision to keep mercury in vaccines. In the film, top scientists and medical professionals, a former congressman, parents of autistic children, journalists and others unravel the truth, secrets and tragedies of skyrocketing autism. Educate yourself and see this film!



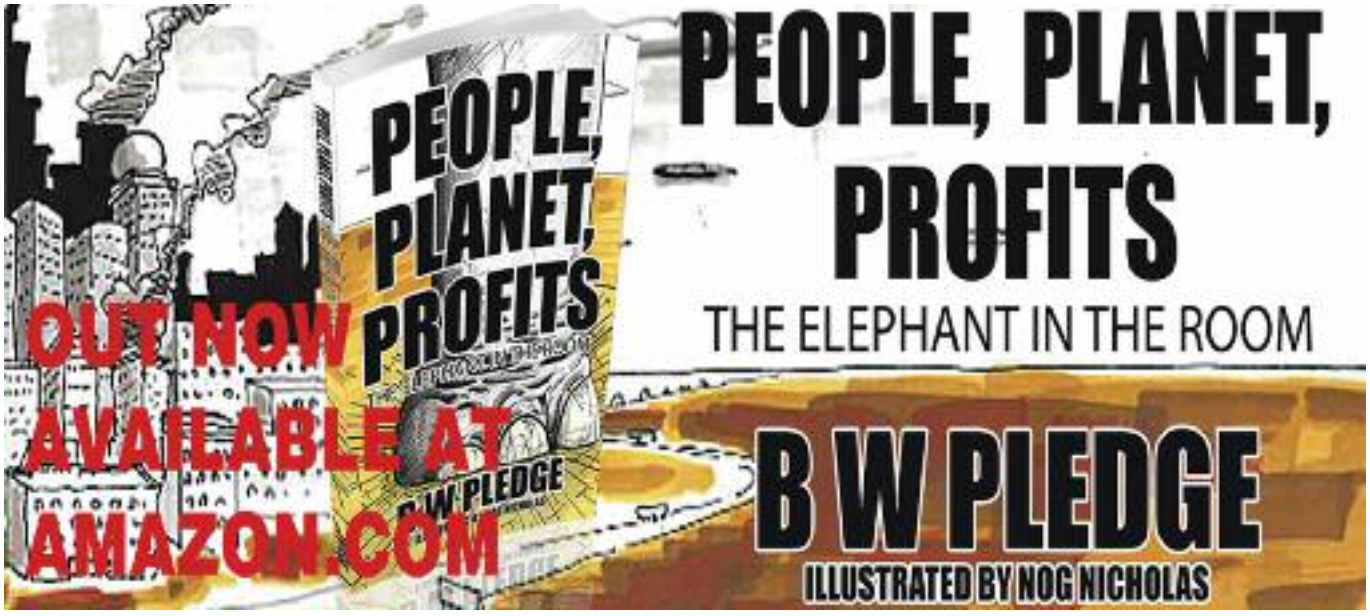
THE COMING WAR ON CHINA
written & directed by John Pilger
Dartmouth Films Ltd, UK, 2016 (113mins)
http://thecomingwarmovie.com

This feature-length documentary by award-winning journalist and filmmaker John Pilger is his 60th for ITV in the UK. Released after the election of US President Donald Trump, it is one of Pilger's most timely and urgent investigations.

As Trump threatens China with a trade war and worse, this film is both a warning and an inspiring story of people's resistance. Two years in the making in the Marshall Islands, Japan, Korea, China and the USA, *The Coming War on China* reveals a build-up to war on China's doorstep. Over 400 US military bases "encircle" China in what one strategist has called "a perfect noose". Japan's Okinawa has 32 US bases, from where attacks on North Korea, Vietnam, Afghanistan and Iraq have been launched in the past. The main target now is China.

Bringing together rare archival footage and interviews with witnesses, Pilger reveals America's secret history in the region, pointing to the destruction of life in the Marshall Islands that has made nuclear guinea pigs of the islanders.

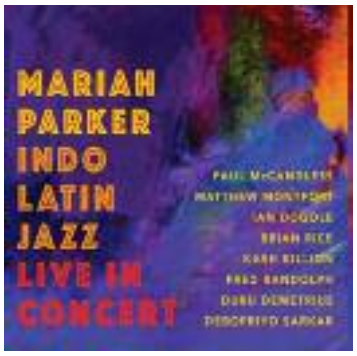
The power play is shifting East as US dominance is ending. China, once subjugated and impoverished, is rising inexorably as the world's banker and builder. Will this be allowed to happen peacefully when Trump has declared "We need to make America great again…and we need victories"? A riveting film.



REVIEWED BY RICHARD GILES

INDO LATIN JAZZ LIVE IN CONCERT
by Mariah Parker
Third Journey Music, USA, 2017 (52mins)
www.Ancient-Future.com
http://mariahparkermusic.com

Pianist Mariah Parker's Indo Latin Jazz Ensemble, established in 2009, combines Latin jazz with the formal scales of Indian music. Parker, also on santur, uses her Indian-influenced touch lightly and delivers a quintessential Latin sound with syncopated rhythms anchored by her keyboard. The traditional Indian, Latin and contemporary jazz styles are melded by some top world musicians on this concert album of material compiled since 2009. A premium ensemble mix.



RÉPUBLIQUE AMAZONE
by Les Amazones d'Afrique
Real World Records, UK, 2017 (68mins)
www.realworldrecords.com
www.theplanetcompany.com

Les Amazones d'Afrique is an all-female West African musical collective from Benin, Gabon, Mali and Nigeria. This supergroup's line-up features Kandia Kouyaté, Mamani Keïta, Mariam Doumbia, Mariam Koné, Massan Coulibaly, Mouneissa Tandina, Nneka, Pamela Badjogo and Rokia Koné. The legendary diva Angélique Kidjo is a guest performer on this album. Through their music, Les Amazones d'Afrique promote gender equality and empower women to rise up and reclaim their lives. A must-buy, exciting and exuberant album, with profits from sales going to The Panzi Foundation to help women recover from war and oppression.

TERRAFORMING IN ANALOGUE SPACE: IRL Remixes 2000–2015
by various artists
IRL, UK, 2017 (2CDs, 66+50mins)
www.independentrecordsltd.co.uk
www.theplanetcompany.com

The IRL label marks its 15th birthday with a look back at its history. *Terraforming…*, its 100th release, is more than a remix album. The main disc features reworkings by Xaos, Dub Colossus and others, while the second revisits the original tracks. This double CD celebrates IRL's world-music catalogue and introduces a new, younger audience to such artists as Tinariwen, the Malawi Mouse Boys, The Dhol Foundation, Lo'Jo and Terakaft. A stunning dance compilation.

TAKO TSUBO
by Paris Combo
Ta-Dah Music, France, Stem, Australia, 2017 (42mins)
www.pariscombo.com
www.theplanetcompany.com

Paris Combo hails from Paris and has an eclectic style that blends French cabaret, gypsy jazz/swing and Middle Eastern sounds. The group stirs it into a brisk cocktail with genres spanning the 1920s to 1960s. Paris Combo's captivating mix reflects the band's influences, from sassy chanteuse Belle du Berry's post-punk musical roots to Potzi's Django-inspired guitar. The band includes David Lewis on horns and keyboards, François Jeannin on percussion, and on different tracks double bassists Benoît Dunoyer de Segonzac, Emmanuel Chabbey and Oliver Smith, also on electric bass. The title *Tako Tsubo* means "broken heart syndrome" in Japanese. Paris Combo knows the way to heal.

The EMF Plague Part 2 of 2

Continued from page 27

energy", and reputedly dedicated much of the rest of his life to utilising this energy for therapeutic purposes.

Tesla learned how to harness scalar energy from one transmitter to another without using any wires, and he planned to adopt scalar energy as the preferred carrier wave for all telecommunications.

Physicist Albert Einstein's colleague Dr Elie Cartan coined the term "torsion"[128], and Einstein confirmed the existence of scalar waves in the 1920s and documented how they could be used. Today these "torsion fields" are also called "Tesla waves". Many corporations use the name "Tesla" in honour of his genius.

In acknowledging this serious public health issue through all levels of society, human intelligence can shine through and new ideas will usher in safer technologies for a new technological age. Optical fibre is already in use, employing light to transmit data. Scalar waves, as opposed to radio waves and microwaves, are now being utilised in communications and medical applications. Eventually, scalar wave technologies will become a part of our whole way of living.[129]

Imagine a world where there is no electrosmog and there are no harmful effects on life on Earth…

About the Author:

Donna Fisher is the author of four books on EMF: *Silent Fields: The Growing Cancer Cluster Story* (2008; reviewed in NEXUS 15/06); *More Silent Fields: Cancer and the Dirty Electricity Plague* (2009; 17/01); *Dirty Electricity and Electromagnetic Radiation* (2011; 18/04); and *Light that Heals: Energy Medicine Today & Beyond* (2014; 22/01). Part one of her article "The EMF Plague" was published in NEXUS vol. 23, no. 2. Her article "Dirty Electricity and the Link to Cancer" was published in NEXUS vol. 16, no. 6. Donna Fisher is currently assisting women in a workplace breast cancer cluster, and also lectures to doctors and health professionals, educators, occupational health and safety officers and union representatives. She can be contacted by email at donna@donnafisher.net. For more information, visit her website http://www.donnafisher.net.

Editor's Note:

Because of space constraints, we were unable to include the endnotes accompanying part two of Donna Fisher's article in the print issue, however these are provided on page 98 of this digital issue.

Music of the Plants

Continued from page 36

purpose of contributing to a reconnection with Nature at a time when this is urgently needed. His project presents a transformational, uplifting and heart-opening musical experience grounded in a well-researched and competent use of frequencies and harmonies.

Originally from Rome, Italy, Vitale is currently based in Auckland, New Zealand, after spending four years in Berlin, Germany. He has been sharing his work since 2012 in India (Kerala, Tamil Nadu), Germany, Estonia, Finland and New Zealand. His article "432 Hz: Towards a New Standard Concert Pitch" was published in NEXUS vol. 23, no. 6 (October–November 2016).

Simone Vitale can be contacted by email at info@soundofgoldenlight.com. For more information and to hear samples of Music of the Plants recordings, visit his website http://www.soundofgoldenlight.com. Also see http://www.musicoftheplants.com/en/.

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Read up on EMFs

Realising particular electro-magnetic frequencies were playing a major part in his health woes, environmental scientist and entrepreneur Jason Bawden-Smith healed himself after studying the research of top EMF scientists.

Bawden-Smith says that industry and government authorities are not responding well to findings about the dangers of non-ionising radiation, but he sees hope that entrepreneurs can develop EMF combating systems to stay ahead of the new devices emitting stronger radiations that will hit the market in the coming years. He gives tips on protection from the EMF onslaught.

He's now launched an education platform, EMF Warriors, with world-renowned experts. His book has apt advice for overcoming electrosensitivity and improving wellbeing.

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Vaccines, Biowarfare and Betrayal Continued from page 45

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Phoenician Stonehenge in America? Continued from page 57

of Honeywell's subsidiary in Kuwait and an electrical contractor in Toronto, Canada, and founded and runs his own business in Lebanon (http://www.servaumatic.com). His many publications include *Thinking out of Norm* (2012), *The Warning in Stone* (2004), *Basic Electrical and Electronics Theories* (1970) *and Process Controls Training* (1969). Mr Jalbout can be contacted by email at fayfay@inco.com.lb.

Endnotes

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 Continued from page 70

dematerialised and travelled through physical objects, and 62% said they arrived via "other type of transportation";

• 75% saw more than three entities on the craft;

• 48% stated that the craft "was alive"—a living entity;

• 44% know why they were taken aboard the craft;

• 41% stated they had been on a craft as a child;

• 32% were allowed to roam the craft without supervision;

• 29% were taken on a "tour" of the craft;

• 24% stated that they have operated a craft;

• 19% recall seeing other humans on the craft.

3.14. Abduction/Relocation

• 623 subjects stated that they have had contact with NHI but have not had an "abduction" (i.e., being taken against their will to another location). Thus, the UFO-related "contact phenomenon" is not just about "abductions".

• The number of times the subjects reported to have been taken varied widely: once, 31%; twice, 13%; 3–5 times, 19.4%; 5–10 times, 13%; and more than 10 times, 23.4%.

• 475 stated that they were taken to another planet, and of these the vast majority that brought them there were Human-looking Beings.

Acknowledgement

The authors wish to acknowledge the contributions to humanity by the late Dr Edgar Mitchell (1930–2016), one of FREE's co-founders. During his lunar trip in 1971 as an Apollo 14 astronaut, he experienced a *samadhi* awakening, "a sense of universal connectedness". This awakening began his journey to become one of the world's pioneers in the study of consciousness, the greatest mystery known to mankind. His vision resulted in his establishing

the world's leading research institute on consciousness, the Institute for Noetic Sciences.

Having grown up in Roswell, New Mexico, the site of the famed 1947 UFO crash, and having conversed with hundreds of military and government officials, Dr Mitchell became convinced that UFOs do in fact exist and he began to speak publicly about this phenomenon. ∞

(Source: Excerpted and edited from the research paper posted on FREE's website http://www.experiencer.org at http://tinyurl.com/z822fph.)

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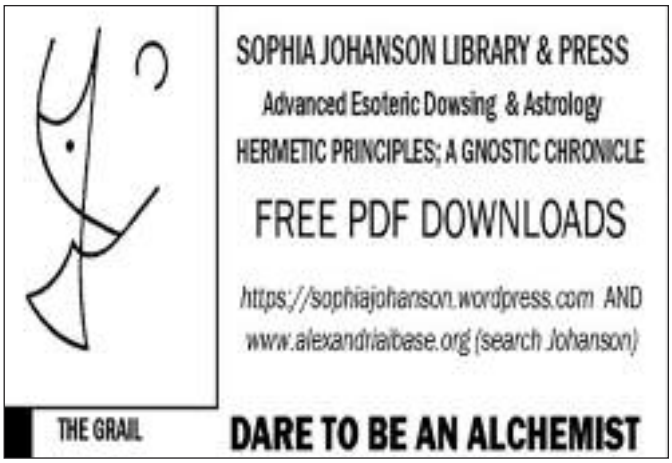

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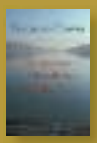

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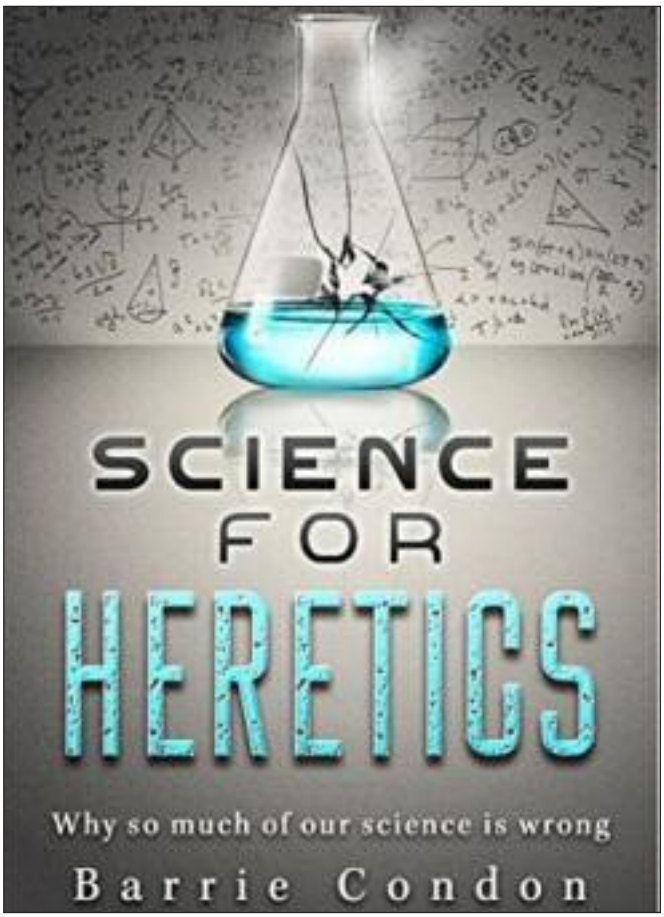

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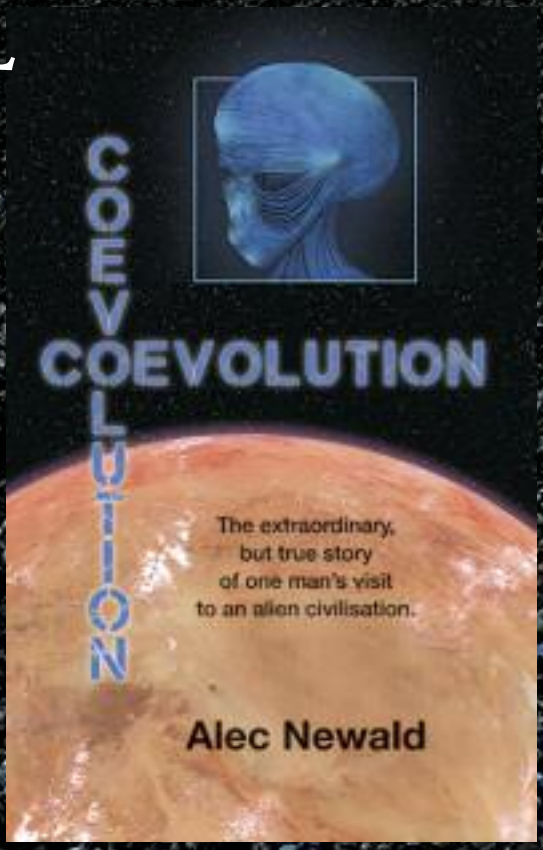

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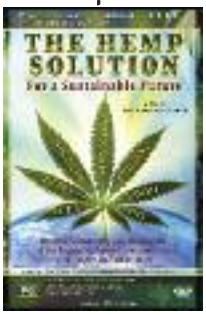

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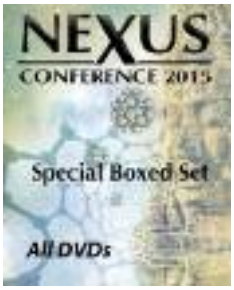

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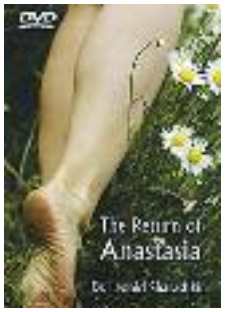

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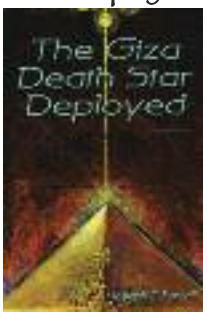

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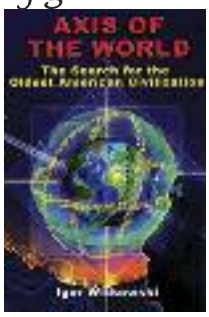

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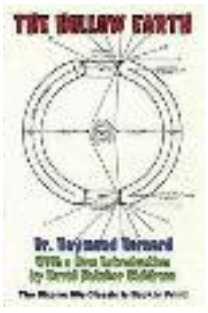

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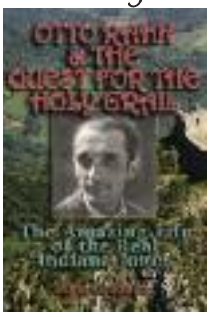

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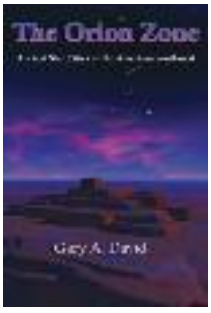

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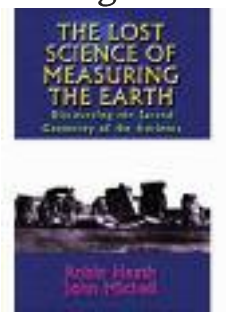

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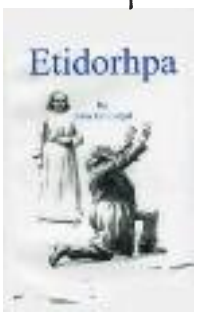

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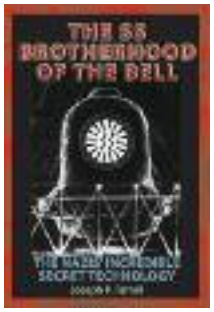

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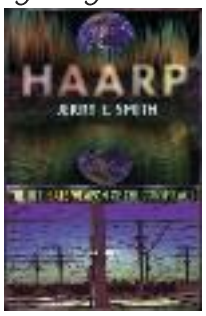

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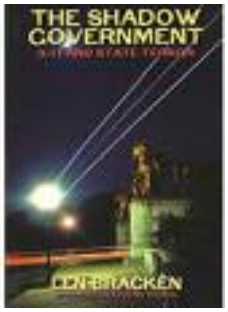

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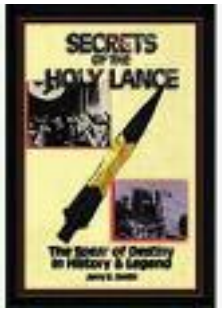

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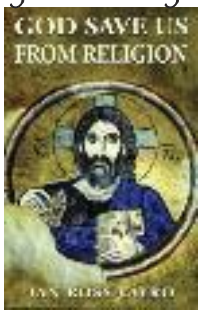

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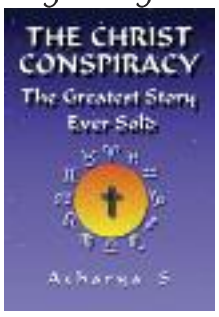

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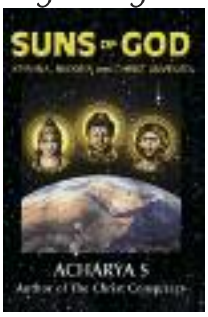

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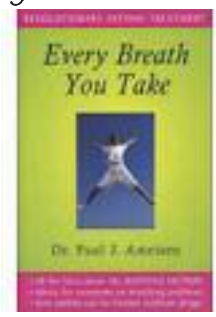

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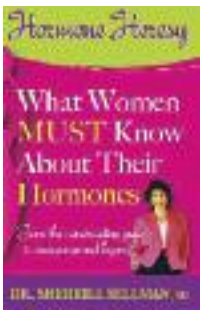

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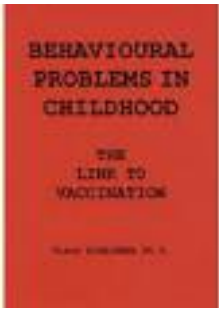

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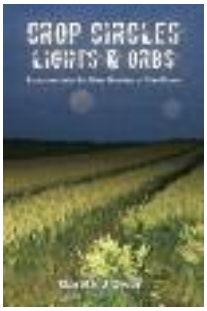

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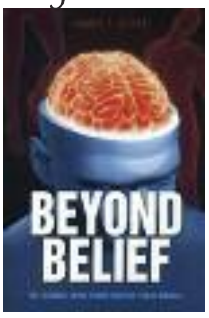

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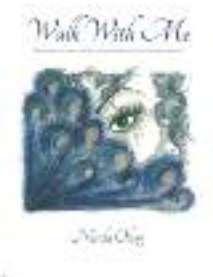

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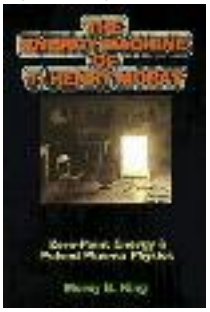

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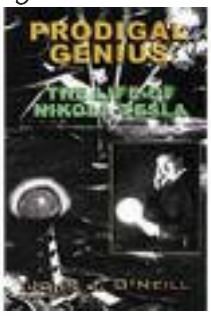

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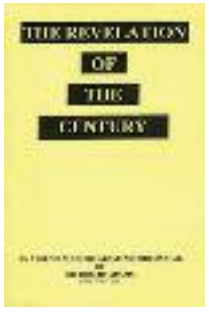

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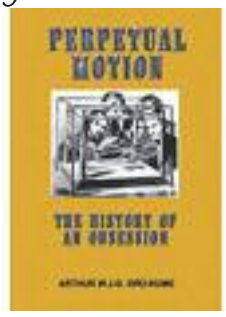

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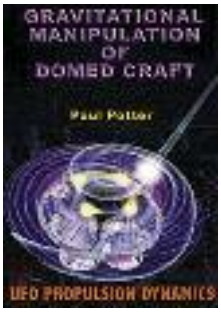

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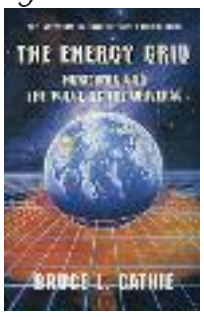

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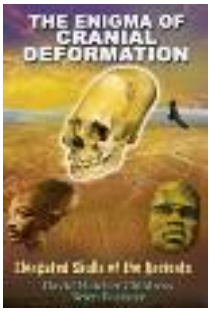

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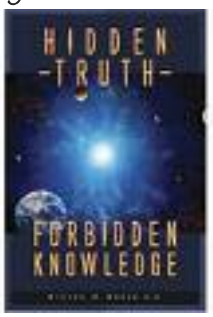

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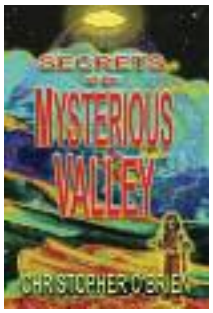

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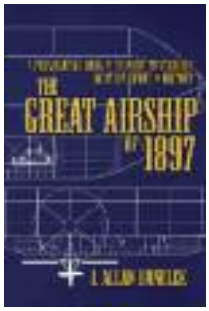

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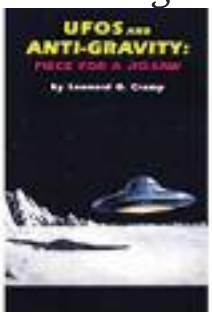

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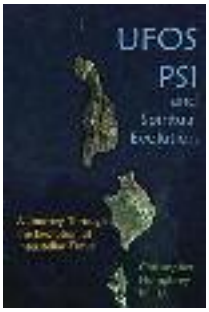

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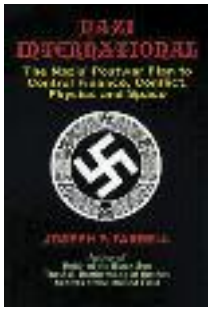

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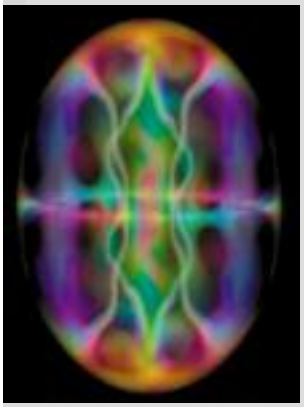

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